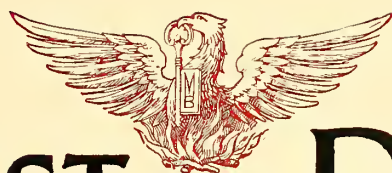




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The



CHEMIST AND DRUGGIST

Established 1859

28 Essex Street, Strand, London, W.C.2

Registered as a Newspaper

No. 2914
VOL. CXXIII

DECEMBER 14, 1935

Annual Subscription (with
Diary) 20/- Single Copies 9d.

The Most Palatable

HALIBUT LIVER OIL

Preparation with

MALT & GLUCOSE

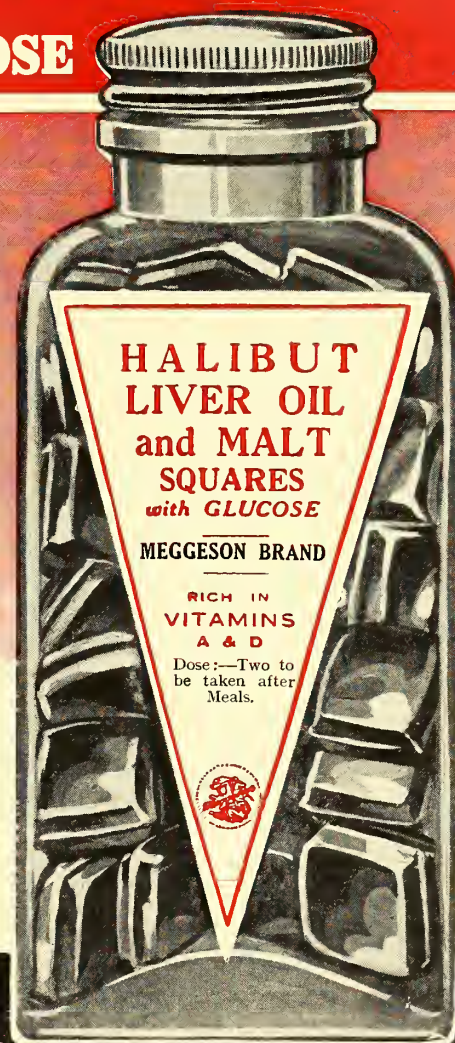
- ★ Each square contains
Vitamins A and D
equivalent to one
dessertspoonful of
Malt & Cod Liver Oil
- ★ Readily taken by
children who cannot
tolerate Cod Liver Oil

PACKED IN BOTTLES AS ILLUSTRATED
(ACTUAL SIZE)

PER DOZ. 9/- NETT

PRICE 1s. 3d. RETAIL

ATTRACTIVE SHOWCARDS WILL
BE SUPPLIED ON REQUEST



MEGGESON & CO LTD

ESTABLISHED 1796 LONDON S.E. 16.

Telephones: BERMONDSEY 1741-1742 (Private Branch Exchange)

Index to Advertisers, pp. 5 & 6.

..... more progress!

In this Journal on December 8th last we briefly recorded our progress from 1929 to 1934; stressing that the 1934 Trading total was 33% in excess of the previous year and eight times greater than in 1929.

With a measure of pride (pardonable we believe!) it can now be recorded that the total sales from the first day of this year to the end of last month WERE 53% GREATER than the whole of 1934, and TWELVE TIMES more than 1929. These are the figures of actual deliveries and do not include forward contracts.

In addition to fulfilling more orders from our old friends this year than ever before, we have increased our total number of Buyers during 1935 by 23%.

May we now offer our hearty good wishes for a prosperous 1936, not only to those who are already entrusting us with their orders but also to those many others whom we are confident we may have the pleasure of also supplying during the forthcoming year?

H. W. GRAESSER-THOMAS
LIMITED

**49 LEADENHALL STREET,
LONDON, E.C.3**

Telephone
MONUMENT 3011
3111

Telegrams:
UNOMEE FEN,
LONDON



UGB STOCK GLASS BOTTLES AND OPAL POTS

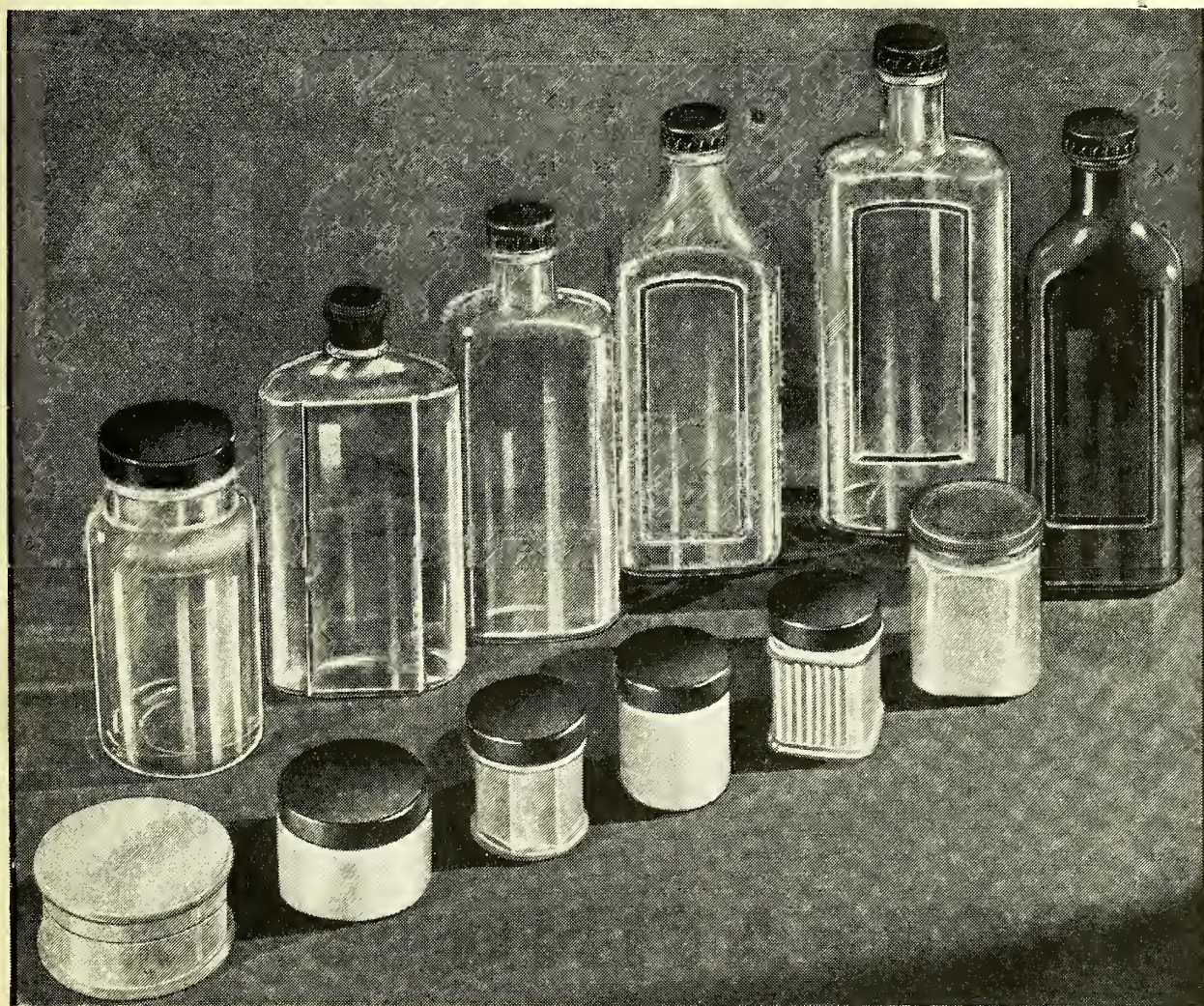
Present your product
ATTRACTIVELY...

U.G.B. Stock designs are unequalled for their purpose, being "the stock line with the proprietary appearance."

A few of these are illustrated below, there being a wide selection of stock containers for your needs.

U.G.B. expert designers also specialise in creating Proprietary packages complete with various types of Screw mouth closures.

Screw caps and glass containers, both manufactured by U.G.B., ensure perfect fitting.



Manufactured by

UNITED GLASS BOTTLE
MANUFACTURERS · LIMITED

The Largest Manufacturers of Glass Bottles in Europe

40-43 Norfolk St., Strand, London, W.C.2

Telephone : Temple Bar 6680 (10 lines)

Telegrams : "Unglaboman, Estrand, London"

A A

INCREASING POPULARITY



A *Castbury* PRODUCT
FOR SLEEP & ENERGY

INCREASING SALES FOR YOU!

There's
REAL MONEY



IN

JUVIGOLD
 BRAND
DUCTLESS GLAND TONIC

Every customer who comes to you for either Juvigold Tablets or Liquid will spend anything from 3/- to £5 . 8 . 0. What is more their custom will be regular and therefore lead to other sales. Your stocks are backed by large space advertising and a lively public demand. Striking show material sent immediately on receipt of a post card.

There is no risk with Juvigold so send for full details now.

USUAL WHOLESALER OR DIRECT

THE MIDDLESEX LABORATORY OF GLANDULAR RESEARCH LTD.
 21 - FARRINGTON AVENUE - LONDON - E.C.4

TELEPHONE: CENTRAL 1901

TELEGRAMS: GLANDOC, LUD, LONDON

3/-

5/-

12/-

27/-

45/-

108/-

P.A.T.A.

'APHA' & 'REMCO'

PIPETTE BOTTLES, BRITISH MADE

REDUCTION IN PRICES



REMCO No. 1
WITH CUSHION TEAT
PATENT APPLIED FOR

SUPPLIED IN AMBER GLASS WITH TALL OR CUSHION TEAT AND BAKELITE CAP WITH GLASS DELIVERY TUBE WITH BALL POINT. AT PRESENT SUPPLIED IN $\frac{1}{4}$, $\frac{1}{2}$ AND 1 OZ. CAPACITIES.



APHA
Registered

SUPPLIED IN AMBER GLASS WITH RUBBER TEAT AND CORK COMBINED AND GLASS DELIVERY TUBE WITH BALL POINT. AT PRESENT SUPPLIED IN $\frac{1}{4}$, $\frac{1}{2}$ AND 1 OZ. CAPACITIES.



REMCO No. 2
WITH CUSHION TEAT
PATENT APPLIED FOR

SUPPLIED IN AMBER GLASS WITH TALL OR CUSHION TEAT AND BAKELITE CAP WITH GLASS DELIVERY TUBE WITH BALL POINT. AT PRESENT SUPPLIED IN $\frac{1}{2}$ AND 1 OZ. CAPACITIES.

STOCKED BY THE LEADING WHOLESALERS

SAMPLES & PRICES ON APPLICATION

W. KING & CO.

50/51 FORE STREET, LONDON, E.C.2

PHONE : MET. 1393

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**Staffallens
GUM
ACACIA**

We have for almost a century enjoyed special advantages for the importation of the finest Kordofan Gum, which we grind in our own mills at Cowper Street.

STAFFORD ALLEN & SONS LTD.
Manufacturing Chemists
Wholesale Trade Only. Write for Samples and Prices To-day.
COWPER STREET Established 1833 **LONDON, E.C.2**

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Just to remind you

that it is inadvisable to place orders for next season's Malt Extract and Cod Liver Oil until you have had samples and prices of

Butterscotch

BRAND

Malt Extract & Cod Liver Oil

- In bulk or packed. Wholesale, Retail, Home and Export.
- A full range of attractive 'Own Name' Labels is available.
- Liberal display material and price tickets.
- All worry is avoided when you stock 'Butterscotch' brand Malt Extract and Cod Liver Oil.


It has a unique flavour—customers like it—and speedily builds up a valuable trade. We will gladly send you samples and details on request

The Brand that gives satisfaction made by the firm that gives real service

C. TOLKIEN & Co. Ltd.

REMOGEN WORKS - SILSDEN - YORKS.

LONDON: 461a CALEDONIAN ROAD, N.7. Phone: North 1859
BIRMINGHAM: REMOGEN WORKS, 74-76 SYDENHAM ROAD, SMALLHEATH, BIRMINGHAM, 11
Phone: Victoria 1317



WE WILL SEND YOU
BEAUTIFUL DISPLAY
MATERIAL FOR
YOUR WINDOWS

TAKE A SMALL
QUANTITY
AND SEE
HOW THEY GO

THIS WILL BE
A GOOD LINE
WHY NOT GIVE
IT A SHOW?

WE ARE
OFFERING A
GOOD BONUS
FOR DISPLAYS

*—but the best argument from
your point of view is*

It is hard to say "No" to a man who is trying to do his job, but you have got to risk the public saying "No" to you. If a traveller can tell you his firm is advertising in "The Radio Times," he will tell you quickly. And if he does, he is offering you the finest possible display in 2,400,000 homes and a bonus of seven days a week support. He is doing more—he is proving his firm's confidence in their product and you may share that confidence. You can say "Yes" and you will be right.

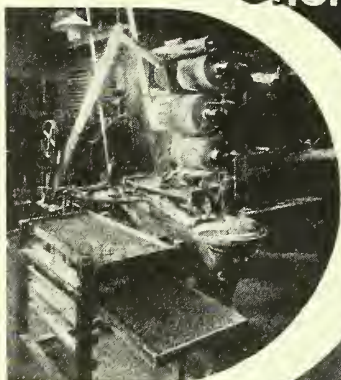
regular advertising in the

RADIO TIMES

All enquiries should be addressed to the Advertisement Director, The B.B.C., Portland Place, W.1. 'Phone: Welbeck 4468.

Private formula work

Pills and Tablets
manufactured under the control of
Analytical and Qualified
Chemists



ONE OF OUR
LARGE
PILL MAKING
MACHINES

Below:
SPECIAL
COATING

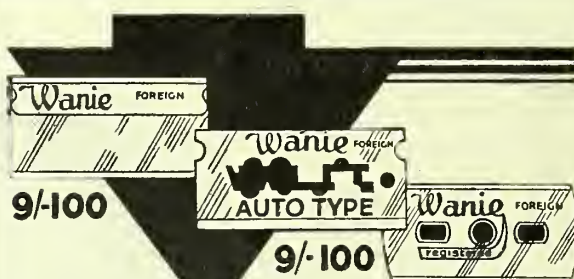
**Coated
or
Uncoated
Bulk
or
Packed**



A
SECTION
OF OUR
BOX MAKING
AND
SHOW
MATERIAL
DEPT.

Exceptionally keen prices

COX *Estab. 1839*
ARTHUR H. COX & Co. LTD.
of BRIGHTON



8/-GROSS

WANIE

The Blade for Every Razor!

Send for Samples to Dept. C D.

**LONDON & PROVINCIAL
FACTORS, LTD.**

146 THEOBALDS ROAD, W.C.1
and at
16 WITHY GROVE, MANCHESTER

Enquiries from Irish Free State invited

Wholesalers are invited to apply for Trade Terms

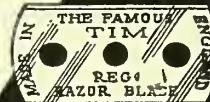
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GROSS

**BRITISH
BLADES**

**HAND
HONED**

TIM



Tokalon Ltd.

Wish You

A Merry Christmas

and

A Bright and Prosperous

New Year

EXTRACTS

SOLID & LIQUID

MEDICINAL RESINS • RESINOIDS
OLEO-RESINS • EXPRESSED JUICES
ESSENTIAL OILS

**EXT.
CASCARA
GRAN.**

Powdered Digitalis
Prepared Ergot
Powdered Belladonna

Solid and Liquid
Medicinal Preparations

Medicinal Spirits
in bond for Export

WILLIAM RANSOM & SON LTD.

ESTABLISHED 1846
MANUFACTURING CHEMISTS
HITCHIN near LONDON

WHOLESALE AND EXPORT ONLY

PHONE..

or post your order to

SANGERS

MUSEUM

5440



Dealing with Sangers gives you the benefit of a Speedy and Reliable Supply Service—just what you need at this time of the year.

Whatever you want is instantly forthcoming from Sangers' huge and comprehensive stocks.

Save time, worry and money by ordering from Sangers.

Sangers

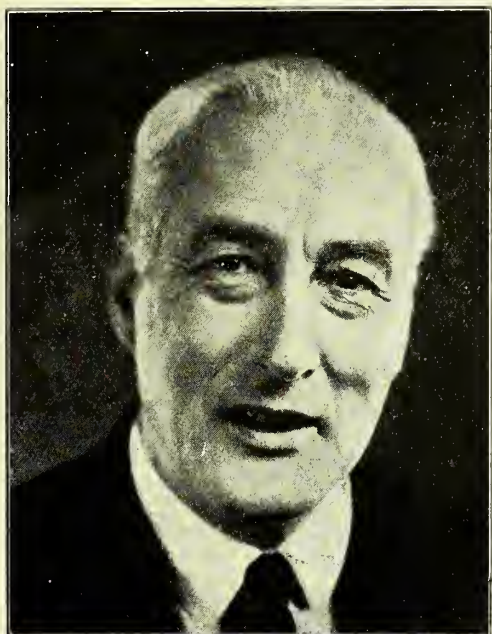
LIMITED

258 EUSTON ROAD, LONDON, N.W.1

'Phone: MUSEUM 5440

Also at:—7-13 Clerkenwell Road, E.C.1

Branches:—BELFAST, BIRMINGHAM, BOURNEMOUTH, BRISTOL, CARDIFF, LIVERPOOL, NEWCASTLE-ON-TYNE, PLYMOUTH



IT PAYS ME TO CONCENTRATE ON MAW'S SURGICAL DRESSINGS & SUNDRIES

- For 1936, I am again buying my Surgical Dressings and Sundries, too, on quality, packing, and reputation from Maws. They are a House that are doing everything within their power to deserve my co-operation.
- They differ from many other suppliers because they don't just sell to me—they definitely plan to sell *for* me. They are doing their utmost to increase my Sundries sales, and to give me a higher margin of profit.
- Their modern packing for professional goods is absolutely tip top. There are pleasing photographic showcards and fine cartons for their B.P.C. Dressings, at very competitive prices.
- They have a whole range of new modern packages for Ointments, Feeders, Soothers and Corn Plasters. Their new polka dot design for their Nursery Powder Packs is simply stunning!
- They offer me, free with nominal orders, fine practical counter units for the showing, stocking and selling of professional items as diverse as Sickroom Requisites, Drip Feed Lamps, Clinical Thermometers, Pessaries and Dental Discs. They have smart silver showcards with pleasing photos for Throat Brushes, Iodine Brushes, Tweezers and Clinicals, too. Their representatives are carrying the largest and best-presented range of Professional Sundries I have ever known.
- They tell me they have broken all records with their Christmas Fashion Merchandise, and the Maw Representative assures me that their Spring programme will be tip-top. I have booked up to see him early in the New Year. I am out for a record year with Maw's productions.
- Of course, their fashion merchandise is simply amazing. They really do stand alone for it.

WOOLLEY

● **FOR ALL**

PHARMACEUTICAL

AND SURGICAL

REQUIREMENTS
●

*Your enquiries
are invited*
●

JAMES WOOLLEY SONS & CO. LTD.
VICTORIA BRIDGE, MANCHESTER

Veterinary **EVANS** Products



Evans Veterinary Products are designed for the Chemist to create and maintain business with his farmer and stockbreeder friends

Send your Veterinary enquiries and orders to

Evans Sons Lescher & Webb Ltd.
 LIVERPOOL LONDON, E.C.1 DUBLIN



① **BRYLCREEM** The Perfect Fixative
Hair Dressing

② **BRYLCREEM** The Supreme Tonic
Hair Restorer

*It's the Brylcreem 'Double Action'
that brings Brylcreem 'Double Sales'*

When a man wants the perfect Hair Dressing . . . recommend Brylcreem.
When a man wants a real hair tonic . . . recommend Brylcreem.
For Brylcreem contains valuable tonic properties that nourish the
roots of the hair and promote hair growth. Brylcreem is the Perfect
Hairdressing of all time backed by the biggest and most
consistent advertising in the history of the hair cream trade.

Brylcreem displays are proved sellers.

BRYLCREEM

The Perfect Hair Dressing

BRYLCREEM IS A P.A.T.A. LINE AND YOUR PROFITS ARE PROTECTED TO THE UTMOST OF OUR ABILITY
The COUNTY PERFUMERY Co., PARK ROYAL, LONDON N.W.10

*An entirely unsolicited
appreciation from the retail trade
of Crookes' Halibut Liver Oil and
the show material provided free of charge*

*The Crookes Lab.
London.*

28/9/1935

Sirs,

*The window display of your
Halibut Oil, Capsules and Halycitrol has been
an outstanding success. Our sales in 9
days total £2-15-0. We thank you for your
co-operation and look forward to a very
good season in Crookes' Oil and your
firm deserve backing owing to the
remunerative profits.*

Thanking you sincerely

~~*Yours faithfully*~~

Sales without display would be approx 5/-

THE CROOKES' LABORATORIES (British Colloids Ltd) PARK ROYAL N.W.10

ANZORA . . .

is Part of the
English Language



To Millions it Means HAIR FIXATIVE

Anzora has its imitators. But it has something its imitators haven't got—and that is a name which is a household word. People don't have to try to remember the name Anzora—it just naturally slips off the tongue. That is why it is so profitable to stock Anzora—it sells itself. And there is an Anzora fixative to suit every type of hair. Link up with the Anzora advertising by using Anzora Show Cards—sent on request.

TRADE TERMS:

ANZORA CREAM AND VIOLA		ANZORA BRILLIANTINE	
9d. size	... 6/- per doz.	1 - bottle	... 8/- per doz.
1/3 "	... 10/- " "	ANZORA WAVE SETTING LOTION	
6d. size	... 4/- per doz.	1/3 "	... 11/- " "
2/3 "	... 18/- " "		

THE GOLD MEDAL HAIR CREAM

ANZORA

MASTERS THE HAIR

ANZORA PERFUMERY CO. LTD., LONDON, N.W.6

*It's best to sell what
sells best*

AVA

soapless

SHAMPOO

39 SHAMPOOS COST 7/6
SHOWING 42% PROFIT

Make an AVA display and see for yourself how fast this popular shampoo CAN sell.

RETAILS AT 4^D. PER PACKET

AVA LTD., 9 PARK HILL :: LONDON, S.W.4.



AZIADÉ COMPACT PERFUMES

Important for JANUARY.

NEW 2/6 Compact

(Containing 4 times 1/- size)

will be introduced with

National Advertising

commencing with

WHOLE PAGES

IN

DAILY MIRROR & DAILY SKETCH

Kindly place order through Wholesaler now.

Trade price 20/- per doz.

AZIADÉ Ltd.

172 Buckingham Palace Road, London, S.W.1

Showcard
No. 149

*Link Your
Windows
with*



INECTO *Press Advertising*

...Show **INECTO**

FREE DISPLAY MATERIAL

PRICES OF INECTO OUTFITS

2-Bottle Outfit, Wholesale 30/- per dozen, Retails at 3/6 per Outfit

4. " " " 48/- " " " " 6/6 " "

8. " " " 84/- " " " " 12/6 " "

INECTO ENQUIRY BUREAU: 27 DOVER STREET, LONDON, W.1.
Telephone: Regent 7541 (12 lines)



A GENUINE SALES SUCCESS!

MADE IN
ENGLAND
UNIQUE IN
THE WORLD

Prevents
SKIN TROUBLES,
BARBER'S RASH,
SORENESS,
ROUGHNESS,
BLEMISHES, ETC.

La Toja

THE NATURAL MINERAL SALTS
SHAVING CREAM

For very good reasons "La Toja" Shaving Cream has definitely established itself in the Public favour. It gives easy and delightful shaving, nourishes the skin, is the most perfect and economical cream ever produced and the only one which contains the famous Curative Salts of La Toja.

Our advertising in the Daily Press and distribution by the Chemists of a free sample of "La Toja" Toilet Soap with each Tube of Cream sold has created a steady and genuine Public demand. Read the details of our Special Bonus Offer and take advantage of this exceptional profit-making opportunity.

SPECIAL BONUS OFFER

(Until the end of December).

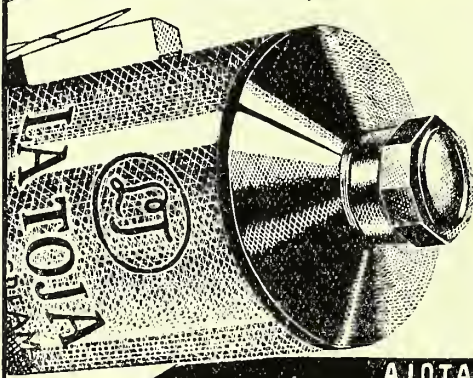
14 to each doz. Tubes ordered.

7 to each 1/2 doz. Tubes ordered (Minimum order 6 Tubes).

Supplied complete in Boxes of 7 or 14 with Sample Tablets of "La Toja" Toilet Soap for free distribution.

"La Toja" SHAVING CREAM sells at 1/6 per Tube.

TRADE DISCOUNT 33 1/3%



Get your stocks NOW!

AJOTAL LTD, 16, WOODSTOCK ST, LONDON W.1

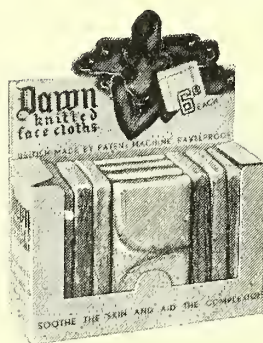
A NEW SALES ATTRACTION

THE NEW

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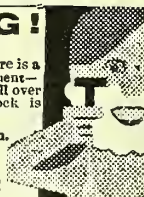
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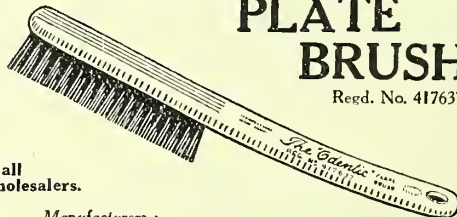
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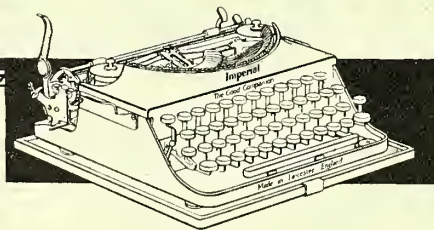
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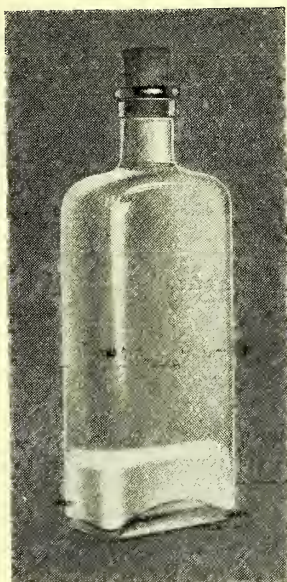
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News of the Week

Additional Import Duty on Linseed Oil

Under the Additional Import Duties (No. 34) Order, the rate of duty charged on imports of LINSEED OIL was increased to £5 per ton, as from December 10, 1935.

Essential Oils Added to the Free List

The Import Duties (Exemptions) (No. 12) Order, 1935, issued by the Treasury on the recommendation of the Import Duties Advisory Committee, provides for the addition to the Free List, as from December 10, 1935, of the natural but not terpeneless essential oils, NEROLI and PETITGRAIN.

The Committee state in their report that they have previously refrained from making any recommendation in regard to these two oils because of the possibility that adequate supplies free of duty might be available from Empire sources, but they are now satisfied that the oils in question should be added to the list of essential oils already on the Free List.

Key Industry Duty Re-exemptions

The Treasury have made an Order under Section 10 (5) of the Finance Act, 1926, exempting PSEUDO-CUMENOL from Key Industry duty from December 13, 1935, to August 19, 1936, and continuing the exemption from Key Industry duty till August 19, 1936, of the articles specified in the following lists:—

Scientific instruments, the following:—

Integrators (planimeter type). Fermentographs, being instruments for measuring and recording carbon dioxide evolved during dough fermentation.

Vacuum tubes, the following:—

Sealed cylindrical X-ray tubes having four windows.

Compounds of rare earth metals, the following:—

Celtium oxide; Dysprosium oxide; Erbium oxide; Europium oxide; Gadolinium oxide; Holmium oxide; Lutecium oxide; Samarium oxide; Scandium compounds; Terbium oxide; Thulium oxide; Ytterbium oxide; Yttrium oxide.

Synthetic organic chemicals, analytical reagents, other fine chemicals and chemicals manufactured by fermentation processes, the following:—

Acid adipic; Acid dipropyl-malonic; Acid filicic; Acid oxalic; Acid propionic; Acidol (betain hydrochlorate); Acyl derivatives of urea, the following: Acid isobutyl allyl barbituric; N-methyl-C-C-cyclohexenyl methyl malonyl urea; N-methyl-C-C-cyclohexenyl methyl malonyl urea-sodium; N-methyl ethyl phenyl malonyl urea; Cyclohexenyl ethyl malonyl urea; Sodium ethyl methyl butyl barbiturate; Alcohol amido ethyl; Amido guanidine sulphate; Amidopyrin (pyramidon; dimethylamidoantipyrine); Ammonium perchlorate; Barbitone (veronal; malonal; malourea; acid diethyl barbituric; diethylmalonylurea; hypnogen; deba); Bromural (dormigene); Butyl esters, the following: Butyl methyl adipate; Calcium gluconate (calcium glyconate); Cellulose ethers, the following: Ethyl cellulose; Methyl cellulose; Chinoline (quinoline); Chinosol; Cocaine, crude; Coryfin; Cyclohexanol esters and alkyl cyclohexanol esters, the following: Methyl cyclohexanol methyl adipate; Dial (acid diallyl barbituric); Dicyandiamide; Didial (ethyl morphine diallyl barbiturate); Dimethyl sulphate; Diphenyl; Diphenyl oxide; Elbon (cinnamoyl para oxyphenyl urea); Ethyl esters, the following: Ethyl abietate; Ethylene bromide; Eukodal; Furfural; Germanium oxide; Glycol ethers; Holocaine; Lead tetra-ethyl; Lipiodin; Melubrin; Mercury compounds, the following: Mercury sodium salicyl allyl amino o-acetate; Metaldehyde; Methyl anthranilate; Methyl esters, the following: Oxymethyl para-oxyphenyl benzylamine methyl sulphate; Methyl sulphonal (diethylsulphonemethylethylmethane; trional); Methylene chloride; Nickel hydroxide; Organo-arsenic compounds, the following: Copper methyl arsenate; 4-oxy-3 ethyl amino phenyl arsenic acid-n-methyl tetrahydro pyridine B-carboxylic acid methyl ester; Orthoform; Orthoform (new); Phenazone (antipyrine; phenyl dimethylpyrazolone; analgesin; anodynine; dimethyl oxychinizin); Phenetidine, para-; Phloroglucine; Phytin; Piperazine (diethylene-diamine);

dispermin); R. potassium chlorate; Potassium ethylxanthogenate (potassium xanthogenate); Potassium guaiacol sulphionate; R. potassium hydroxide (R. potassium caustic; R. potassium hydrate); R. potassium permanganate; Pyramidon-veronal; Quinine ethylcarbonate; Radium compounds; Sajodin; Salol (phenyl salicylate); Salophen; Strontium carbonate; Strontium nitrate; Sulphonal; Synthalin; Theocine (theophylline); Valyl.

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Vanadium compounds, the following:—

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It will be noted that the following products have not been re-exempted and will become liable to Key Industry duty on and from January 1, 1936:—

B-naphthol ethyl ether (nerolin); B-naphthol methyl ether (nerolin); Guaiacol carbonate (duotal); Neodymium oxide; Praseodymium oxide; Urea (carbamide).

Proprietary Articles Trade Association

The result of the P.A.T.A. Council election for the year 1936 is as follows:—

MANUFACTURERS' SECTION.—There was no contest in the manufacturers' section, the following firms being returned unopposed:—The British Drug Houses, Ltd.; J. Grossmith & Son, Ltd.; Icilma Co., Ltd.; John Steedman & Co., Ltd.

WHOLESALE SECTION (four vacancies).—The voting resulted in the election of the first four names in the following list:—Raines & Co., Ltd., 36; Barclay & Sons, Ltd., 34; Southall Bros. & Barclay, Ltd., 29; Smith & Sons (Norwich), Ltd., 28; May, Roberts & Co., Ltd., 21; Evans, Gadd & Co., Ltd., 19. (Voting papers sent out, 57; returned, 46; disallowed, nil.)

RETAIL SECTION (four vacancies).—The first four candidates mentioned were elected:—Armitage, N. N., 2,553; Milner, J., 2,406; French, J. E., 2,393; Marshall, H. H., 2,113; Smith, John, 1,198. (Voting papers sent out, 9,766; returned, 3,078; disallowed, 31.)

Chemists' Friends Scheme

Since the publication of the first list of manufacturing and wholesale houses, the following have signed the agreement and are now upon the Chemists' Friends List:—Therapeutic Products, Ltd.; Genatosan, Ltd.; Simpkin & Co., Ltd.; London Essence Co., Ltd.; Whites Laboratories, Ltd.; Alfred Bishop, Ltd.; Clay & Abraham, Ltd.

The following district meetings, to be addressed by Mr. G. A. Mallinson, Secretary of the National Pharmaceutical Union, have been arranged in furtherance of the Chemists' Friends scheme. Already similar meetings have been held with successful results in each place:—

Birmingham	... January 7	Cardiff	... February 5
Leeds	... January 8	Derby	... February 12
Sheffield	... January 8	Nottingham	... February 13
Bangor	... January 15	Southampton	... February 19
Preston	... January 22	Bristol	... March 4
Manchester	... January 22	Newcastle	... March 11

Sessional Events

The Aldershot and District Chemists' Association has now entered again into activity, and under the chairmanship of Mr. A. G. Tilley (Trimming & Co., Ltd., Farnham) it is hoped will be successful in stirring up the local chemists to enthusiasm and energy for the profession and trade in which they are engaged.

Mr. G. A. Mallinson (secretary of the N.P.U.) addressed a meeting of East Anglian chemists at Ipswich, on December 5, Mr. S. J. Stearn (chairman of the N.P.U. Executive) presided over one of the largest N.P.U. meetings ever held in Ipswich. Mr. Mallinson gave an enlightening address on the Chemists' Friends movement, and afterwards answered questions asked by numerous members of the audience. Those present showed great enthusiasm for the movement, and whole-hearted support was promised. Mr. J. C. Wiggin moved a vote of thanks, which was seconded by Mr. Grimwade (Colchester) and carried with acclamation.

The annual dinner of the Colchester and District Branch of the Pharmaceutical Society was held at Jacklin's Café, Colchester, on November 27. Mr. C. A. Noble (a member of the Society's Council) was the chief guest. Mr. C. A. Grimwade

(chairman of the branch) was in the chair. Proposing the toast of "The Pharmaceutical Society," the chairman expressed appreciation of the work of the Council and officers of the Society, and commented on the Pharmacy and Poisons Act. In reply, Mr. Noble explained a number of clauses in the Act, and referred to the work of the Council. The other guest was Mr. L. Piper, chairman of the Ipswich and District Branch, who replied for "The Visitors."

Inquests

At Epsom, on December 5, an inquiry was held concerning the death of Mr. Ernest J. Jones, chemist and druggist, who died in hospital. Evidence showed that Mr. Jones had taken an overdose of a narcotic (said to be opium), and that death was due to bronchial pneumonia following the overdose. A verdict to the effect that he was of unsound mind at the time was recorded.

The coroner for Southwark, London, S.E., in the course of an inquest on the body of Henry H. Taylor, a clerk who died from tuberculosis in a Hastings hospital, asked questions about a missing dangerous drugs register which, it was inferred, had some connection with the irregular action of a nurse at the hospital in obtaining supplies of morphine tablets from the hospital stock; he asked the authorities to make a stringent inquiry. The pathologist at Guy's Hospital and Dr. J. H. Ryffel, Home Office analyst, said that there was no trace of Taylor having taken an overdose of morphine; a verdict of "Death from natural causes" was given.

Birmingham

At Birmingham Assizes, on December 10, Ernest P. Freeman (40), described as an hotel proprietor, was sentenced to four years' penal servitude on charges of obtaining goods by false pretences, forging documents, offences under the Dangerous Drugs Acts and otherwise. It was stated, among other details, that the accused bought a medical practice at Hall Green and ordered goods from wholesale druggists which were not paid for till after his arrest.

The Birmingham Pharmacists' Scientific Section met on December 3, Dr. E. C. Bryant in the chair. The meeting was addressed by Dr. W. Smith, B.Sc., barrister-at-law and pharmacist, who gave an address on "Hereditry." After a brief historical survey, with particular reference to the plant-breeding experiments of Mendel, the cytological aspect and the effect of mutations were discussed. It was held to be wrong to regard the genes or units of heredity as conferring fixed characters on an individual; since they are chemico-physical bodies we should think of them as reacting in a definite manner when exposed to certain chemico-physical forces. The albino and the negro were discussed by the lecturer from this point of view. He regarded it as most important that behaviour, which may be attributed to habit, mimicry, education or other factors of environment, should be dissociated from hereditary causes. The predisposition of members of certain families to rheumatism and the allergic diseases was shown to be due to differences in resistance to a particular environment and an inherent difference in the anatomical make-up. Such abnormalities may be attributed to mutations in many cases. Many mutations must have occurred in past ages, due to solar radiations which differ from those we have to-day. Brachydactylism, polydactylism, neurofibroma, ichthyosis and Huntington's chorea were described. The incidence of twins, left-handedness and diabetic tendencies were explained as recessive characters transmitted in the same way. Haemophilia was next dealt with, and it was mentioned that the most recent remedy for the condition is snake venom obtained from Russell's viper. The address concluded with a reference to blood groups, and it was shown that an understanding of the principles of inheritance contributes in large measure to the explanation of social, medical and legal problems. A vote of thanks to Dr. Smith was proposed by Mr. Blore.

Bradford

The Bradford and District Branch of the Pharmaceutical Society heard an address on "Home Office Anti-Air Raid and Gas Precautions" recently. Mr. F. C. Wilson (chairman of the Branch) presided, and the speaker was Dr. W. N. West-Watson, commissioner of the St. John Ambulance Brigade and a Yorkshire area officer under the Home Office scheme. The working of the scheme in its application to the

public, said the lecturer, had been entrusted jointly to the St. John Ambulance Brigade and the Royal Red Cross Society. Both organisations were training their members in gas-raid precautions, first aid, casualty clearing station and other work subsidiary to base hospitals. It was expected that they would subsequently have the duty of offering instruction to the public. The speaker outlined the history and present development of chemical gases used in warfare, and described different types used in the great war. The Home Office scheme was not intended to create any scare or any war spirit; it was a common-sense precaution. Apart from special clothing and equipment, a creamy paste of bleaching powder was, said the speaker, the most efficacious medium for "decontaminating" articles affected.

Cambridge

The annual meeting of the Cambridge and District Branch of the Pharmaceutical Society was held at the Lion Hotel, Cambridge, on December 5. The following officers were elected:—*Chairman*, Mr. J. Evans; *Vice-Chairman*, Mr. E. E. Grange; *Treasurer*, Mr. J. B. Simmons; *Secretary*, Mr. W. Heap; *Auditor*, Mr. A. Deck; *Committee*, Messrs. S. F. Parker, G. E. Butcher, B. S. Campkin, F. E. Harris, R. A. Hopkins, J. M. Palmer, M. E. Parson, C. L. Smout, W. H. Scott, and E. S. Peck (*ex officio*). In his report, the secretary mentioned the election of Mr. E. Saville Peck as president of the Society, and Mr. J. Evans to the Executive of the N.P.U. Mr. Evans thanked members for their support in electing him to the N.P.U. Executive. He pointed out many advantages of N.P.U. membership and gave examples of the good work which was being done for the members. An informal discussion followed in which both Mr. Evans and Mr. Peck answered questions put by the members. It was announced that a dinner was to be given in January to Mr. Peck in honour of his election as president. A collection of £1 4s. for the Benevolent Fund was added to the special appeal fund.

Cheltenham

At the annual dinner and dance of the Cheltenham Branch of the Pharmaceutical Society, held on December 5, the principal guests were the Mayor and Mayoress of Cheltenham; Mr. Hugh N. Linstead (Registrar of the Society) and Mrs. Linstead; and Dr. and Mrs. Francis Lidderdale. The president of the Branch (Mr. Harold Miller) was in the chair. The toast of "The Pharmaceutical Society" was proposed by the immediate past-president (Mr. Percy James). Mr. Linstead, replying, recalled happy memories of his Conference visit to Cheltenham. The new Pharmacy and Poisons Act was, he said, like most Acts of Parliament, rather a mixture, but he hoped that the good would more than compensate for the bad. The new building was not an extravagance, but was designed to centralise the activities of the Society. The increasing volume of work made it a necessity. The Mayor (Councillor D. L. Lipson), proposing the toast of "The Cheltenham Branch," spoke of the excellent spirit of fellowship which brought the chemists of Cheltenham together for their annual dinner. Mr. Harold Miller, in reply, referred to the charitable activities of the Branch, and particularly of the ladies' committee. He handed to Mr. Linstead cheques amounting to £80 17s. as contributions to the Society's Benevolent and Orphans' Funds. He hoped that the Cheltenham Branch would continue, as for several years past, to give the highest subscription in the country per member. "The Visitors" was proposed by Mr. O. A. Fortey. In reply, Dr. Lidderdale referred to the good feeling which existed between the doctors and chemists in Cheltenham. Mr. J. Lovell Goulder was M.C.

Hull

Members of the Hull Pharmaceutical Students' Association were given an interesting demonstration of the uses of the tintometer and the ultra-violet lamp by Messrs. A. Surfleet and W. E. Naylor (Lofthouse & Saltmer, Ltd., manufacturing chemists, Hull) on December 3, Mr. H. S. Smart (president) in the chair. Mr. Naylor described the tintometer and showed how it was used in ascertaining the vitamin-A value of cod-liver and halibut-liver oils. Mr. Surfleet showed how the ultra-violet lamp was used to distinguish between substances apparently identical in appearance. Miss M. Bolton, in pro-

posing a vote of thanks to the demonstrators, included Messrs. Lofthouse & Saltmer, Ltd. During the evening prizes were awarded to two students for the best of a number of short papers which had been submitted. The successful students, Mr. Harrison and Miss Clegg, read their papers.

Lancaster

A lecture by Mr. W. Deacon (a member of the Pharmaceutical Society's Council; of the Institute of Radiology; and of the Society of Radiographers) on "The Romance of X-rays, Their Mystery and Use" was given under the auspices of the Lancaster, Morecambe and District Branch of the Pharmaceutical Society of Great Britain in the Lecture Hall, Public Library, Market Square, Lancaster, on November 28. Members of the medical and dental professions, the Frankland Society and the Photographic Society were invited, and an audience of about seventy enjoyed a very pleasant evening. The lecture comprised a review of x-rays from their discovery by Röntgen in 1895 to the present day, their application in science, medicine, art and industry. Numerous lantern slides were shown. Arrangements for the lecture were made by the local secretary (Mr. W. A. Smith). The lantern was operated by Mr. R. Simpson, member of the Branch and of the local Photographic Society.

Leamington

The Warwickshire Branch of the Pharmaceutical Society held a meeting at Leamington Spa on November 25, when Mr. H. N. Linstead (secretary of the Society) gave a lucid and instructive address on "The New Poisons Legislation." The chairman of the Branch (Mr. W. L. Nundy) presided. Mr. Linstead, in expressing his pleasure at the large number present, said he intended more to try to smooth away the difficulties and fears of the pharmacists, who, quite needlessly, rather apprehended the advent of the new Bill, than to attempt to give a detailed description of the Act. He thought everyone now realised the necessity of the Bill owing to the breakdown of the different rules and regulations that had been from time to time adopted in the past. Referring to registration, he said this was absolutely necessary if inspection was to be properly carried out. Inspection was unavoidable, and such being the case it was highly preferable that it should be done under the auspices and guidance of the Society. Mr. Linstead clarified the position as to the Poisons List. Labelling of poisons, standardisation of poison bottles, storage, and regulations dealing with barbiturates were dealt with in detail by Mr. Linstead. An animated discussion followed the address and many questions were asked. Mr. Linstead said that after May 1 prescriptions for barbiturates will probably be valid for one more occasion; after that new prescriptions will be required which can be repeated according to instructions. Declaration of contents of a proprietary containing a poison which should be disclosed must be so done in a conspicuous manner. The labelling of the inside of a container containing a poison was not necessary if the packet was sold as put up for sale by the proprietor; in that case only the outside packet need be labelled with the name and address of the seller. This did not, however, refer to Schedule I poisons, which must be labelled inside and out. To another question Mr. Linstead replied that the reason why a registered pharmacist paid a higher registration fee than a listed seller was obvious when one compared the list of poisons each could sell.

Liverpool

At the eighteenth annual general meeting of the British Association of Chemists, held in Liverpool recently, the report showed a total membership of 1,785 and a net increase of sixty-seven members.

Mr. T. Edward Lescher, O.B.E., chairman of the Liverpool Chamber of Commerce, is the subject of an illustrated article in the current issue of "The Liverpoolian." It will be remembered that Mr. Lescher was elected treasurer of the British Pharmaceutical Conference at the Leeds meeting last year, and has his commercial interests in addition to the responsible duties of the chairmanship.

A debate on earlier closing took place recently at a meeting of the Old Students' Association of the Liverpool School of Pharmacy, the president (Mr. J. Butler) in the chair. Mr.

F. W. Kempster proposed "That earlier closing of chemists' shops would be of advantage to pharmacists," and remarked that they could be sure of public support. Many people averred that they could not close earlier because of their N.H.I. contracts, and the greatest drawback in the opinion of some was the drug stores and herbalists, who could keep open until midnight. Referring to N.H.I. work, the speaker remarked that if there was a united effort by chemists throughout the country they could surely come to some agreement. For all his long hours and service to the public, what did he get when he retired? He had nothing to look forward to. In opposing, Mr. A. L. Vickers remarked that a large proportion of those supporting the motion referred to by the previous speaker were those who had little or no N.H.I. work and were willing to experiment. They did not realise that there were chemists who were mainly dependent on that class of work for their living. Was an earlier closing hour worth while? The only advantage he could see was that the student-apprentices could have more time to study. He rather thought that the student was more likely to go to the pictures or some other place of entertainment. The motion was seconded by Mr. J. H. Andrews, who asserted that the main factor in the chemists' minds against such a proposal was that fear that somebody next door was going to get something that they ought to get themselves. Mr. W. E. Coates, seconding the opposition, remarked that the proposers of the motion had rather suggested that they must close at 8 p.m., but actually there was nothing to prevent them closing at 4 p.m., 5 p.m. or 6 p.m. if they wished, providing they had no N.H.I. contracts. If they had N.H.I. contracts, they were bound to keep open for this purpose, but they were not obliged to sell other goods if they did not wish to do so. Dealing with N.H.I. work, Mr. Harrison remarked that unless they were doing something like 1,000 scripts a month it was not worth while. A happy medium at 7.30 p.m. was suggested by Mr. W. H. Williams, who also thought it might be worth while considering cutting out wholesalers who supplied chemists' goods to herbalists and general dealers, etc. Mr. Morris remarked that they could not confine customers to one particular shop. Mr. R. Roberts said the public certainly could be trained to accept earlier closing hours. They had been trained in Wallasey and other districts. Closing the debate for the opposition, Mr. Vickers remarked that if they closed an hour earlier they would not be giving the public the service they were entitled to under the N.H.I. Act. It would be the beginning of dispensing by the medical profession. Appealing for support to the motion, Mr. Kempster said that in moving it he had in mind its general application throughout the British Isles. The Pharmaceutical Society got their money from them, and they were getting nothing from the Society. If that Society was turned into a trade union and every chemist in the country forced to close at a certain time, any man who kept open after that time could be fined, and if he still continued breaking the rule his certificate should be taken from him. The motion was carried by twenty-one votes to four.

London

At Marylebone Police Court, on November 29, it was held that razor blades sold for the cutting of corns did not come within the Shops Act exemptions of medicine or medical and surgical appliances. A fine of 10s. was imposed in respect of an irregular sale.

A meeting of chemists, convened under the auspices of the South-East London Branch of the National Pharmaceutical Union, was held at the Plough Hall, Lewisham, on December 3. The attendance was good and fully representative. Mr. Cecil H. Foster (president of the South-Eastern Associations) presided, and introduced Mrs. Sharples (N.P.U.) as the first lady speaker to address a South-Eastern meeting and as Mr. Mallinson's "right-hand man." Miss Sharples addressed the meeting on "Intimate details connected with the N.P.U.," and in the course of her remarks dealt with the several undertakings associated with the Union and with the Chemists' Friends scheme. The meeting supported the scheme. A vote of thanks was moved by Mr. W. T. Tucker and carried with acclamation.

At West London Police Court, on December 10, Rudolph M. Hindhaugh (36), described as a chemist's assistant, was charged with forging a doctor's prescription for twelve doses of morphine hydrochloride with intent to defraud; with uttering a prescription knowing it to be forged; and with demand-

ing a drug from Mr. C. S. Clark, chemist, Richmond Road, W.2, by means of a forged prescription. He was further charged with forging similar prescriptions on two other dates, uttering them, and unlawfully procuring in each instance twelve doses. Mr. Vincent Evans prosecuted. Mr. H. Pierron, for the defence, argued that the solution was so weak that it did not come within the Dangerous Drugs Act or the Pharmacy Act, and that as Hindhaugh had paid the chemist the full amount for the drug there could be no intent to defraud. The hearing was adjourned.

The annual meeting of the Executive Committee of the London County Pharmaceutical Association received, at a recent meeting, the resignation of Mr. J. Hearle owing to pressure of other pharmaceutical engagements. Mr. Hearle is a past-president of the L.C.P.A. and was again due to occupy the chair. His resignation was received with an expression of regret. The following officers were appointed for the ensuing year:—*President*, Mr. J. A. Thompson; *Vice-President*, Mr. David T. Jones; *Secretary*, Mr. G. A. Tocher. The financial statement for the year 1934-35 was adopted. Among subjects considered were price cutting; the dispensing service under the South Metropolitan Gas Company's scheme for the nine months ended September 30, 1935; federation of retail organisations in London; and N.P.U. circulars issued to branch secretaries, particularly that concerning the Chemists' Friends scheme.

At West London Police Court, on December 10, Blanche Barnicott (50), described as independent, pleaded "Guilty" to a charge of being in unlawful possession of 18½ gr. of morphine. The magistrate bound her over for a year and placed her on probation, a condition being that she should enter a nursing home for twelve months and not go out unaccompanied. He also ordered her to pay £26 5s. costs. It was stated that there were three previous convictions. Mr. Vincent Evans, prosecuting, said that between November 1933 and November 1935 Mrs. Barnicott obtained on eighty-nine prescriptions issued to her by one doctor 1,112½ gr. of morphine from a chemist. While obtaining these drugs she also purchased between June 1933 and November 1935, on forty-four prescriptions signed by another doctor, 517½ gr. from another chemist. The Magistrate: I should have thought that by some arrangement by the medical profession this duplication and triplication could be made impossible.

A meeting of the National Association of Women Pharmacists was held at 17 Bloomsbury Square, W.C.1, on December 4. The president (Mrs. Skinner) was in the chair, and Mr. Haynes, publications manager of the Pharmaceutical Press, gave an address entitled "The Woman in Retail Selling." Mr. Haynes discussed the objections put forward against retail work, all of which, he said, were unsound. All great inventions which now contribute to the comfort of the community had met with considerable opposition before they have been accepted. This opposition had to be met by salesmen, who have thus done more to benefit humanity than is generally realised. Business was no longer undignified, monotonous, parasitic or shady, but an honourable and interesting calling for man or woman. A sense of the value of time and the habit of getting things done must be cultivated. On the other hand, systems must not be allowed to overcrowd the business. Acquiring permanent customers and the goodwill thereby created would enable the chemist to hold his own against the chain stores. Questions were asked by Mrs. Skinner, Miss Harvey and Miss Crook. In replying, Mr. Haynes said that the amount of capital required to start a business depended on the locality and the type of business, and that it should be possible for a woman to start a business in almost any locality. Miss Curry proposed a vote of thanks.

The annual dinner and dance of the Guild of Public Pharmacists was held at the Palace Hotel, Bloomsbury, London, W.C.1, on December 5, the president (Mr. C. H. Sykes) in the chair. Spur-tables were in charge of Mr. J. R. Elliott and Mr. J. Wicliffe Peck. Among those present were Mr. E. A. Andrews, Mr. and Mrs. H. Davis, Mr. J. B. Elgar, Mr. and Mrs. Campion, Miss E. M. Hodgkinson, Mr. and Mrs. R. H. Henriksen, Mr. and Mrs. J. Moore, Mr. H. Martin, Mr. and Mrs. F. B. Royal. The toast list was a short one. "The Guild and Its Founders" was proposed by Professor J. H. Burn (Dean of the College of the Pharmaceutical Society). Dr. Burn mentioned the work of three former well-known hospital pharmacists, Messrs. F. W. Hocking, J. Langford Moore and

Arthur Jenkin, all intimately connected with the work of the Guild. He stressed the educational policy of the Society and its relation to the professional status of the pharmacist, and the hospital pharmacist in particular. The chairman replied. "The Visitors" was proposed by Mr. J. Wicliffe Peck (vice-president of the Guild). Mr. Adams (assistant secretary of the Pharmaceutical Society) replied. During the dancing a presentation of a silver tea service was made to Mr. and Mrs. R. H. Henriksen on the occasion of their marriage. Mr. Sykes referred to Mr. Henriksen's work as editor of the "Public Pharmacist," and wished him happiness in his new post in London. The duties of toastmaster and M.C. were carried out by Mr. F. B. Royal.

Manchester

A dance, organised by the Junior Branch of the Manchester Pharmaceutical Association and the Branch of the Guild of Public Pharmacists in aid of the Benevolent Fund, was held at the Piccadilly Cinema Dance Saloon on December 4. Some 200 members and their friends attended a most enjoyable and successful function. Messrs. R. B. Maskell, W. E. Phillipson and H. Steinman acted as M.C.s. It is expected that a substantial sum will be realised.

A joint meeting of the local Branches of the Society, the Guild of Public Pharmacists and the Manchester Pharmaceutical Association was held at the Victoria Hotel on December 5. Mr. J. H. Franklin in the chair. The chairman said that Mr. Speight, radiologist, at Oldham Infirmary, who should have given an address on "x-Ray Diagnosis and Treatment," was unfortunately absent through illness. He had sent a deputy, Mr. Bray, to read his address and exhibit the lantern slides that he had prepared to illustrate the address. Mr. Bray read the address and explained the lantern slides. A film illustrating the component parts of x-ray apparatus concluded an interesting address. A hearty vote of thanks to Mr. Bray, to Mr. Speight and to the operators of the lantern and the film, Mr. R. B. Maskell and Miss Foxall, proposed by Mr. Edwin Walters (president of the Association) was accorded with loud applause.

Newcastle-upon-Tyne

At a meeting of the Newcastle District and Northumberland Branch of the Pharmaceutical Society, held on December 5, Mr. H. Gartside, B.Sc., Ph.C. (Evans Sons Lescher & Webb, Ltd., Biological Institute) addressed a large gathering of members on "Antitoxins and Prophylactics" and illustrated his lecture with a large number of lantern slides. Giving an outline of the early experimental work in this comparatively new science, Mr. Gartside dealt particularly with diphtheria antitoxins and prophylactics. He detailed the growth of diphtheria bacteria in broth medium and the production therefrom of the formula-toxin. The method for the removal of broth-proteins by flocculation and the suspension of the floccules in carbol-saline, giving the commercially known Toxoid-antitoxin Floccules, was next described. The standardisation on guinea-pigs against the standard issued by the British Medical Association was explained, and also the preparation of antitoxin (diphtheria) from horse serum. Mr. Gartside concluded his lecture with a film illustrating in full the methods and procedure used in the preparation and manufacture of the foregoing products and the preparation of calf lymph.

Portsmouth

At the recent annual meeting of the Portsmouth Branch of the Pharmaceutical Society it was decided to form a reference library for the use of members and student-associates.

At the invitation of Councillor W. J. Lewis, M.P.S. (chairman of the Portsmouth Electricity Committee), and Mr. B. Hoadley (general manager), members of the Portsmouth Chemists' Association and their wives inspected the city electricity works recently. Controlled by the City Council, the works is one of the most up-to-date in the kingdom. At the conclusion of the visit Councillor Lewis provided a tea, and the president (Mr. W. L. B. Murray) voiced the thanks of the members.

Sheffield

There was a company of nearly 350 at the supper-dance held by the Sheffield and District Branch of the Pharmaceutical

Society on December 5. Those present included Mr. C. P. Gilbert (president) and Mrs. Gilbert, Mr. W. Wood (secretary), Mr. and Mrs. J. E. Crowe, Mr. and Mrs. J. Austen, Mr. and Mrs. C. W. Hobson, Mr. and Mrs. E. A. Kirman, and Mr. and Mrs. H. Antcliffe, Mr. and Mrs. E. Preston. Supper was served at 10 p.m. and dancing was continued until 2 a.m.

At a meeting of the Council of the local branch of the Pharmaceutical Society Mr. H. Antcliffe, a past-president, declined the office of vice-president because he felt that there were a number of younger men who should go forward. After a discussion it was agreed to adjourn the election until the next meeting. Mr. G. F. Thompson resigned the secretaryship of the Branch, as he is leaving Sheffield. On the motion of Mr. C. P. Gilbert, the president, seconded by Mr. A. H. Culverhouse, thanks were extended to Mr. Thompson for the valuable work he had done. On the motion of Mr. Gilbert, Mr. W. Wood, City Road, was co-opted a member of the Council and was also appointed secretary of the Branch. Mr. Wood is at present the secretary of the local branch of the Photographic Dealers' Association.

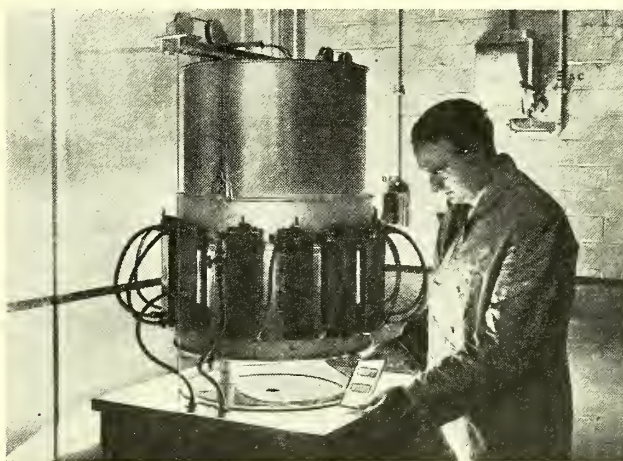
Miscellaneous

WINDOW SMASH.—During the fog on December 6, a motor lorry in London Road South, Lowestoft, skidded and crashed into the pharmacy window of Mr. Perrèdes, Ph.C.

IN THE COURTS.—At Radcliffe, Lancs., on December 9, J & W. Whewell, Ltd., chemical manufacturers, were fined £25 for not having certain machinery properly fenced.

CHRISTMAS SHOPPING HOURS.—The Home Secretary has made an Order under the Shops Act, 1928, suspending throughout England and Wales the provisions relating to general closing hours from Wednesday, December 18, to Tuesday, December 24, both days inclusive. This Order also suspends the operation during the period of evening closing orders under the Shops Act, 1912, but does not suspend provisions for the closing of shops on the weekly half-holiday.

PRODUCTS OF CEYLON COCONUT.—An exhibition unique in character was staged at Ceylon House, Aldwych, London, W.C.2, on December 9, when specimens of some two hundred commodities and articles were on view, all of which were partly or wholly manufactured from coconut. Besides the chief products, such as the edible oil, desiccated coconut, coir, fibre and bristles and copra on view, there was a specimen of charcoal made from the shell, which is used for purifying purposes in the wine and other industries and has lately been found satisfactory as the basis of an ingredient in the filters of gas masks. During 1934, 124,676 cwt. of shell charcoal was exported from Ceylon. The total area of palms under cultivation in Ceylon is 1,100,000 acres.



Part of the new research laboratory at Derby opened for the London, Midland and Scottish Railway on December 10 by Lord Rutherford. The quality of paint, tensile strength of cloth, etc., will be tested here.

Irish Notes

Pharmaceutical Society of Northern Ireland

Results of the half-yearly examinations of the Pharmaceutical Society of Northern Ireland held between December 2 and 5 were:—

Preliminary Scientific.—The following passed: A. Doran, J. G. Finlay, W. T. Cleghorne, R. K. Gordon, A. F. Hastings, J. J. Keily, H. A. Keys, E. W. Mason, J. K. Millar, W. McConnell, B. A. McGlade, Miss M. S. Nelson, S. Orr, G. H. Parkinson, S. Rutherford, J. B. C. Sherman, C. R. Whitcroft.

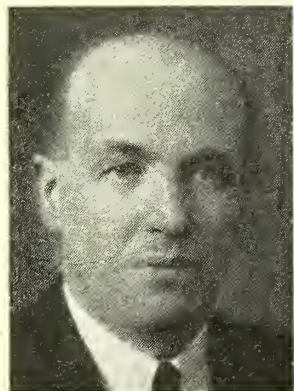
The following candidates were referred in the subjects specified:—Botany, G. McCloy, D. M. McCracken, C. F. R. Pritchard, A. M. Stevenson. Botany and Chemistry, J. Anderson, W. J. Beattie, W. H. A. Clarke, W. J. Collins, C. R. Downey, J. J. Daly, J. G. Foley, J. M. Myers, G. V. McMillen, H. Wallace. Chemistry, A. G. Kerrigan, J. F. Lowry, D. L. McArdle. Physics and Chemistry, J. J. Knox, J. Patterson.

Final Qualifying Examination.—The following passed: J. S. Aitken, C. H. Bell, W. A. Boyd, E. P. Collins, J. Duncan, Miss A. Finnegan, V. Grattan, Miss T. I. Hanlon, J. T. Hunt, K. Loughran, J. Maginnis, E. F. O'S. Mansfield, R. Maxwell, S. M. McMillin, J. D. Shiels, V. M. Wilson, J. W. Wright.

The following candidates were referred in the subjects specified:—Pharmacognosy and Chemistry, W. R. Atkinson, W. A. Beggs, H. G. Campbell, P. G. Cosgrove, A. T. Gowans, J. J. Huey, Miss H. L. Mackenzie, Miss M. Meneely, M. D. Moore, J. F. O'Neill, W. H. Poulter, J. A. Svenarton, O. A. Wasson. Pharmacognosy, J. Wilkinson. Chemistry, J. M. S. Bingham, R. Frew, W. B. Hewitt, T. McFadden, Miss C. E. Nesbitt.

Ulster Chemists' Association

Mr. Alexander Steede, the new vice-president of the Ulster Chemists' Association, carries on a successful pharmacy at 276 Antrim Road, Belfast.



MR. ALEXANDER STEEDE

He served his apprenticeship to Mr. J. S. Acheson, Ballymena, after which he was an assistant to Mr. J. Hill, Strabane. After qualifying in 1918 with honours he went to Londonderry, where he served for some time in the pharmacy of Mr. H. E. Young. He obtained the F.S.M.C. qualification in 1922, and is a freeman of the City of London. Ten years ago he took over the pharmacy of Mr. J. Nesbitt, on the Antrim Road, Belfast. Mr. Steede is also proprietor of the Moss Manufacturing Co., which markets a syrup of Irish moss, well known in Ireland. Mr. Steede has been a member of the Committee of the Ulster Chemists' Association for a

lengthy period, and is a representative of that body on the Belfast Chamber of Trade Executive. He is also a member of the Executive of the Ulster Branch of the British Optical Association, and a well-known rifle shot.

The monthly meeting of the Executive Committee of the Association (formerly the Ulster Retail Drug Trade Association) was held in Belfast on December 3, the president (Mr. James Dundee) in the chair. Apologies for non-attendance were received from Mr. Rankin and Mr. Shinner. The outgoing president (Mr. Dundee), in proposing Mr. John McGregor as *President* for the coming year, said that Mr. McGregor was an enthusiastic worker in the interests of the Association. Mr. James McDowell seconded the motion, which was supported by Mr. Martin and passed by acclamation. The newly elected president thanked the members, and paid a fitting tribute to the work of his predecessor, under whose administration there had been a gratifying increase of membership and a thoroughly successful year of progress. The basic principle of success was loyalty. Other officers were elected as follows:—*Vice-President*, Mr. A. Steede (proposed by Mr. McGregor, seconded by Mr. Adams); *Secretaries*, Messrs. E. A. Richey and John McDowell

(proposed by Mr. Dundee, seconded by Mr. McEwen); *Treasurer*, Mr. W. J. Rankin (proposed by Mr. Dundee, seconded by Mr. Martin); *Auditors*, Mr. James Macauley and Mr. T. Mitchell (proposed by Mr. McGregor, seconded by Mr. Abernethy). On the motion of Mr. McGregor, seconded by Mr. Adams, Mr. Joseph Wellwood was unanimously co-opted as a member of the Executive Committee. The representatives to Belfast Chamber of Trade chosen were Mr. A. Steede and Mr. W. Martin (proposed by Mr. Abernethy, seconded by Mr. Richey). Mr. Walter C. Tate was unanimously re-elected as representative to the Ulster Tourist Development Association.

Mr. Culbert suggested that it would be advantageous if a small subcommittee was formed to deal with the registration of the Association as a trades union, restriction of the sale of patent medicines, and other important matters. On the motion of Mr. Dundee, seconded by Mr. Martin, Mr. Culbert, Mr. Adams, Mr. Linehan and Mr. Shinner were unanimously appointed to form the subcommittee together with the *ex-officio* members. The secretary reported that it would be advisable to have additional copies of the Price List printed, as the supply on hand was exhausted. It was agreed to leave this matter to him to report later. During an interval the newly elected president entertained the members to tea. A vote of thanks for his hospitality was proposed by Mr. Culbert, seconded by Mr. Martin, and passed by acclamation.

Assistants' Demand

During the past week the Chemists' Assistants' Branch of the Irish Distributive Workers' Union have served a demand on the chemists of the Free State for increased rates of pay, a reduction of working hours, limitation of apprentices, and other matters. The demand was served first on the Limerick chemists, and later on the chemists' associations in Dublin and Cork. In Dublin the demand was served on the Irish Drug Association as representing the employers. It is stated that 350 chemists' assistants in Dublin are concerned in this movement. Simultaneously with this demand on the retail chemists, a separate agreement is sought by the Union in respect of about 300 members engaged in the wholesale business.

In a statement to the daily Press Mr. Seamus Murphy, secretary of the Chemists' Assistants' Union, says: "A full seven-day week is now the rule in many houses, with hours from 9 a.m. to 9 p.m. In the best houses the hours are 9 a.m. to 6 p.m. for three days of the week, and 9 a.m. to 9 p.m. for the other three, and Sunday work on alternate Sundays from 10 a.m. to 12 noon, and from 6.30 p.m. to 8.30 p.m. Fully qualified chemists in many cases are receiving only 50s. a week, although the average is higher." It is alleged on behalf of the Union that the Corporation by-law requiring shops to close at 9 p.m. is not generally observed. It is understood that the demand will come before the Committee of the I.D.A. on December 16.

Brevities

The tender of the Cork Chemical & Drug Co. for the supply of medicines to the Cork Fever Hospital has been accepted.

Cork South Infirmary have accepted tenders from C. H. & P. J. Fielding (medicines), and Egan & Co. (surgical appliances).

Mr. D. L. Kirkpatrick (secretary of the Pharmaceutical Society of Northern Ireland) was bereaved last week by the death of his father-in-law, Mr. J. M. Finlay, who had attained the age of ninety-three.

Professor James Small (member of the Council of the Pharmaceutical Society of Northern Ireland) is making good progress after his recent operation. He was able to return home from the nursing home at Belfast on December 7.

Mr. W. T. McMurray (Thos. McMullan & Co., Ltd., Belfast), who is known in the drug trade all over Northern Ireland, is seriously ill at his home in Bangor. Mr. McMurray, who is eighty-three years of age, has been with Messrs. McMullan over sixty years.

Mr. P. Daffy, Corofin, co. Clare, took charge of the remains of a large animal found recently in a crag near the town. Mr. Daffy communicated with the Natural History section of the Dublin Museum, and received a reply stating that the bones found appear to be the dorsal vertebrae of a whale. The bones were discovered fourteen miles from the sea.

Belfast

Mr. J. C. Culbert, Ph.C., Connswater, was a member of a deputation which waited on the Police Committee of Belfast Corporation on November 26 to protest against the new one-way traffic arrangements at the Hollywood Arches, which, it was contended, were injuring business.

At the annual meeting of the Ulster Centre of the St. John Ambulance Association in Belfast on December 5, under the presidency of Dr. V. G. L. Fielden, Ph.C.; Mr. Alfred W. Mann, Ph.C., read a report showing that the year had been a most successful one. On the proposition of Sir Robert Kennedy, seconded by Mr. J. C. Rutherford, Mr. Mann was appointed secretary and treasurer.

The report of the public analyst of Belfast (Mr. J. H. Totton) shows that during the past quarter 508 samples had been analysed, of which 493 were in order. Among the articles found correct were solidified carbon dioxide, chemical food, compound chlorophyll tablets, ginger wine, iodine paint (methylated), liver and kidney salts, mineral waters, Neave's Food, castor oil, cod-liver oil and olive oil.

Belfast Chamber of Trade Executive has adopted a resolution from the Council of the Association of British Chambers of Commerce "viewing with concern the continued growth of trading in factories, workshops, offices and schools by employees, who retail such commodities as tobacco, sweets, hosiery, clothing, fancy goods, etc." During the discussion Mr. A. Steede, Ph.C. (vice-president of the Ulster Chemists' Association), said that trading organisations should take up the matter seriously. Many druggists had been giving guilds ten or fifteen per cent. discount. Their Association had canvassed the members with the result that for the last twelve months not a single member of the drug trade had allowed his name to go on the lists.

Scottish Notes

Ramsay Chemical Dinner

Speaking from the chair at the Ramsay Chemical Dinner at the Central Hotel, Glasgow, on December 6, Sir Thomas Holland (Principal and Vice-Chancellor of Edinburgh University) recommended to research chemists the study of the laws governing the formation of mineral oil deposits. He gave figures showing the kind of problems that remained to be solved. About 50,000 tons of nickel and 1,500,000 tons of copper were produced annually, yet the earth's crust contained twice as much nickel as copper. The workable ore deposits of the world did not constitute more than about one-millionth of the metals that they knew were lying within accessible distances from the surface of the continental lands. It must be annoying to financiers to know that in the ocean alone there was some 6,000,000,000 tons of gold—twice as much as was contained in the rocks of the continents down to a mile in depth.

Dr. J. F. Tocher (Aberdeen), in reply, declared that chemical discoveries had been followed by mass production not only of industrial chemicals and medicaments but also of the most destructive substances. The chemist's job was not to fight; it was to unravel, as had been done in the case of vitamins. A speaker at the British Association meeting at Norwich in September had rightly drawn attention to the poor nutrition of a large section of the community. Ill health due to this cause should be eliminated by the efforts of local authorities backed by the State. But humanity's advancement depended not only on food, clothes, education and international agreements but also on how far their knowledge of heredity was discreetly applied to improve the physique, the character and the mentality of mankind. The dinner was attended by a representative company.

Topical Reflections

By Xrayser

I Read

the outburst in "The Grocer" mentioned in your editorial article on p. 679 with quiet amusement. While, as you say, it would not be difficult to controvert some of the assertions made by the writer, he rather spoils his case by drawing the "red herring" of the new Pharmacy and Poisons Act across the trail; the Chemists' Friends scheme, obviously, has no connection with this. Not all grocers, by a long way, have sold medicinal preparations. I should say that in the majority of cases they have obtained them from wholesale grocers or wholesale chemists' sundriesmen to oblige customers who have asked for them specially. Presumably this practice will gradually cease, or, at all events, it will with Chemists' Friends lines, but the inability to supply the articles can, surely, be easily explained to their customers. The gist of such explanation should be that chemists will, in the future, sell these because by their training and business outlook they are the proper people to sell them, just as grocers are the proper persons to sell butter, bacon or tea. I say tea advisedly, because if, under the Chemists' Friends scheme or any other scheme, the chemist sells more medicinal goods, he will desire to drop the sale of tea. After all, the Chemists' Friends scheme makes for specialisation and seeks to get back to the chemist business which he first introduced, but which has since left him or been taken from him. Of his inalienable right to it there can be no shadow of doubt, albeit there will quite likely be some trouble before he gets it in the way indicated by Mr. Mallinson.

It Is Somewhat Late

in the day to point out that N.H.I. dispensing does not pay (p. 691); I believe that most chemists came to that conclusion when the scheme was first introduced. What induced them to take it up—I speak from knowledge, for I was one of them—was the promise that this was the beginning of a better state of affairs for pharmacy; we were told that if we once convinced the Government we could look

after the supply of medicine, we might get a prescriptive right to supply it in the years to come. That was the idea with which we started the scheme, and we were content to accept it with all its difficulties. Whether it paid or not did not come into our calculations then. Before the war, labour and drugs were comparatively cheap, and we had not the spate of new preparations and the complexities of modern business conditions to keep in mind. If the dispensing of insurance scripts can be worked in with the ordinary business of the pharmacy and without employing extra labour, it pays reasonably; if, however, the number of scripts is so great as to necessitate extra trained and skilled labour, it does not pay, and the other part of the business has to carry this "passenger." The average pharmacist to-day dispenses N.H.I. scripts on the assumption that "half a loaf is better than no bread." This is an important reason why the growth of public medical services should be watched so carefully; when pharmacists do the dispensing, it is at insurance rates.

I Enjoyed

reading the report of the lecture "Evolution of a Match" (p. 667), an unusual subject treated evidently in a manner that must have commended itself to the audience. I am rather sorry, however, that the lecturer used the word "evolution" in the sense he did, although I quite admit that it is being used to-day in similar ways. Thus we read of the "evolution" of a bicycle, of an aeroplane or of a motor car. In the interests of clear thinking and the proper use of words, I protest against the use of this word as indicating that a match or a machine may evolve. What does evolve is the idea of an aeroplane or a motor car; as the dictionary puts it, evolution "is an act of unfolding or unrolling." That the lecturer is in good company, however, in using the word as he did is proved by reading a well-known work on evolution by two eminent Darwinians, who illustrate the scientist's great theory by the story of the development of a bicycle from an ancient "bone-shaker."

Legal Reports

Grey Powder.—At Thames Police Court, London, on December 6, Mr. Harry Bogdanor, chemist and druggist, Mile End Road, E.1., was summoned by the Stepney Borough Council for having sold grey powder not of the nature, substance and quality of the article demanded, contrary to the Food and Drugs (Adulteration) Act. He pleaded "Guilty." Mr. Edward Fail, for the Council, said the powder was found to be deficient in mercury to the extent of 58.4 per cent. Analysis showed that chalk had been added, apparently to increase the bulk and make it easier for a child to take. Mr. Bogdanor had stated that he sold the powder in the same condition as it was supplied to him. Inquiries had been made, and the Council were prepared to accept the explanation, being of opinion that he had been let down badly. In the circumstances the Council only asked for 21s. costs. The magistrate dismissed the summons, under the Probation of Offenders Act, on payment of the costs.

Conspiracy to Defraud.—At the Central Criminal Court, London, on December 9, John Bright (22), salesman, Bishop's Road, S.W.6, and Edward Meadows (35), traveller, Globe Road, E.1., were charged with conspiring together and with other persons unknown to cheat and defraud such traders as might be induced to supply goods on credit to Merry & Bright, Ltd. (C. & D., November 30, p. 645). They pleaded "Not guilty." Bright was also charged with being knowingly a party to the carrying on of the business for a fraudulent purpose, and with failing to keep proper books of account throughout the period of two years immediately preceding the commencing of the winding up of the company. Bright denied this charge also. Mr. G. B. McClure, who appeared for the prosecution, said that Bright was a director of the company and Meadows was not. The case for the prosecution was that the two defendants, working together in the alleged fraudulent concern which had a very short life, knowingly defrauded people who were induced to give credit. The prosecution also submitted that the company commenced to be fraudulent from the time that it began to deal wholesale. Merry & Bright, Ltd., was formed in April 1934 with a capital of £100, its object being to trade as chemists, druggists, tobacconists, confectioners and grocers. Another director of the company was a relative of the defendant Meadows, who, according to the prosecution, had put forward that man as a dummy in order that Meadows might be associated with Bright in running the business. That director was in the employ of the company really as a hairdresser, and the prosecution submitted that he was a mere puppet except that his name appeared on cheques. At first the business was an ordinary retail one, but afterwards it branched out into the wholesale trade, and further premises were taken. The business was wound up in February of this year on a creditor's petition. Following formal evidence with regard to premises and bank accounts, Mr. J. W. Hill, an examiner in the winding-up department of the Board of Trade, said that the stock at the date of winding up was only £9 12s. 6d. He gave details of the monthly purchases and sales during 1934, saying that in September the purchases were £307 and the sales £341. In December the sales were only £127, against purchases of £841. There were no entries in the books since December 14, and no sales ledger had been kept. There was a gross loss of £1,186, or at the rate of 35 per cent. John Bright, in the witness-box, said the business of Merry & Bright was his. The other directors were nominal only. Sundry expenses were paid which were not entered in the books of the company. He agreed he was selling goods below standard wholesale prices. The only explanation he could give for his position was that there was a terrific leakage in the stock. He denied the charges of fraud. Cross-examined by Mr. Anthony Hawke, Bright admitted that two letters stating that he was a good tenant were in his handwriting. Witness said he kept the books. He did not know whether Meadows had seen them, but they were in the office. Meadows had nothing to do with the business. Asked what he was doing before he registered the business, Bright said he carried on a cut-price business in the tobacco trade. He had no safe nor cash box, and when he wanted to buy anything for himself he took a "sub" from a drawer. Bright was allowed to address the jury from the witness-box. He said the leakages must have been going on all the time. Meadows, in the

witness-box, said that in 1934 he was engaged as a cut-price tobacconist. He had nothing to do with the firm of Merry & Bright. He had supplied cut-price shops, earning about £4 or £5 a week and working about a day and a half a week. Cross-examined, he said his family had been in the cut-price business for years as cut-price tobacconists. He denied having dealt in cut-price proprietary goods sold by chemists. He said he could earn 10 per cent. by selling goods to others to be sold at cut prices. Mr. Hawke: I suggest you were at the bottom of the whole thing?—No, sir. Counsel addressed the jury, and the judge summed up. Meadows and Bright were both found guilty. The judge said that they had been convicted of serious offences, but they did not seem to appreciate the position they were in. His lordship postponed sentence in each case until the next sessions, which commences on January 7, 1936.

Insurance Act Dispensing

Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Local Reports

Liverpool.—At a recent meeting of the Liverpool Insurance Committee, Mrs. A. Billinge was re-elected chairman. Reviewing the year's work, the chairman said efforts continued to be made to enlarge the range of medical benefit. The prescriptions issued in the area last year were 1,665,000, a reduction of 59,000 (representing £2,033 in cash) on the previous year's total. The average cost of medicine per insured person was nearly 3s. 6d., about 6d. per head above the average for the country. It was difficult to imagine, she remarked, why there should be so much difference.

London.—At the November meeting of the London Pharmaceutical Committee, Mr. D. A. Rees (chairman) presiding, the secretary was instructed to send a letter of congratulation to Mr. John Keall on his election as Mayor of Wandsworth. It was reported that Dr. E. A. Gregg had been appointed chairman of the London Insurance Committee for the ensuing year. This was the first time a panel doctor had been elected to the chair of the London Committee. A report of the Pharmaceutical Service Subcommittee concluded with the following paragraph: "It is but rarely we are called upon to investigate a complaint by an insured person against a chemist, and when it is borne in mind that each year some 8,000,000 prescriptions are dispensed for insured persons in London, we think that the Committee will regard the position as satisfactory." The secretary reported changes in the Panel List during the third quarter, 1935, as follows:—Shops changed hands, 20; new shops, 9; new branches, 5; and resignations, 18.

Middlesex.—At a recent meeting of the Middlesex Pharmaceutical Committee a report on the panel changes during the preceding two months was given by the secretary (Mr. Hugo Wolff), together with the latest reports on the suggested new terms under the N.H.I. contracts. Statistical data for the preceding months showed that the number of insured persons within the county had increased by 20,000. Prescriptions in August had increased by 18,000, and in September by 14,000, over the corresponding months for the previous year. The total amount paid for dispensing in August was £6,577, against £5,887 in 1934, and in September £6,966, against £6,394.—The General Purposes Committee asked, and the Committee agreed, that chemists should be requested to enter in block letters on every invoice the name of the doctor or doctors concerned, and the secretary suggested that the doctors too might be required to write their names in block letters. Miss Marlow (chairman of the Committee) said that some of the representatives of the societies would bear out what the secretary had said.

West Riding.—The chairman of the West Riding Insurance Committee, in his annual review, said that £15 had been withheld from five chemists in respect of discrepancies in test samples of medicine, etc. The Committee had also recommended the Minister of Health to amend the terms of service to provide that a panel chemist should not absent himself from his shop for more than one week without first notifying the Committee of his proposed absence, and should indicate the name of the chemist who would be responsible for dispensing medicines during such absence.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office

HERB FARM, LTD. (P.C.).—Capital £2,000. Objects: To carry on the business of cultivating herbs, etc. R.O.: The Herb Farm, Seal, Kent.

WOODWARDS (CHEMISTS), LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of chemists and druggists, etc. The first directors are to be appointed.

FIRSTBROOKS, LTD. (P.C.).—Capital £100. Objects: To carry on the business of chemists and druggists, etc. R.O.: "Moradwyn," New Road, Porthcawl.

WILLIAM TAYLOR (CHEMISTS), LTD. (P.C.).—Capital £500. Objects: To carry on the business of chemists, druggists, opticians, etc. R.O.: 119 Moston Lane, Blackley, Manchester, 9.

VEGA CHEMICALS, LTD. (P.C.).—Capital £100. Objects: To carry on the business of manufacturers of chemical substances, etc. R.O.: 11 Upper Teddington Road, Hampton Wick, Middlesex.

SICHEL TRADING & EXPORT CO., LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of manufacturers of and dealers in adhesives, chemical and other articles, etc. R.O.: Surrey House, Richmond, Surrey.

S. G. COURT, LTD. (P.C.).—Capital £2,000. Objects: To acquire the business of Stanley G. Court heretofore carried on by him at Birchington and Minnis Bay, Kent, and to carry on the business of pharmaceutical chemists, etc.

CASCADIA PRODUCTS, LTD. (P.C.).—Capital £5,005. Objects: To acquire the business of a manufacturer of syringes for surgical, medical and other purposes carried on by A. G. Products, Ltd., at Carlton Bridge, Great Western Road, W.

BRITISH PRODUCTS SANMEX CO., LTD. (P.C.). Registered in Edinburgh.—Capital £1,000. Objects: To carry on the business of manufacturing chemicals, disinfectants, soaps, insecticides and perfumes, etc. R.O.: 89 Stromness Street, Glasgow.

BEAUTY PROPRIETARIES, LTD. (Public Company).—Capital £750. Objects: To carry on the business of importers and manufacturers of and dealers in perfumes, powders, compositions, creams, etc. Solicitors: Lake & Son, 61 Carey Street, W.C.2.

APTOR MANUFACTURING CO., LTD. (P.C.).—Capital £500. Objects: To acquire from Dr. Herman Marcuse the sole right to manufacture and sell all chemical and other preparations belonging to him, including the trade mark "Aptor." R.O.: Mansion House Station Buildings, E.C.

ALLBRIGHT & WILSON (IRELAND), LTD. (P.C.). Registered in Dublin.—Capital £50,000. Objects: To carry on the business of chemists, druggists, drysalers, etc. The first directors are:—William B. Threlfall, N. R. Goodbody, John W. Freeman, and Maurice J. Antcliff, addresses not stated.

ZENA (COSMETICS), LTD.—At a meeting held in Manchester on December 2 it was resolved that this company be wound up voluntarily. Mr. E. C. Smith, 44 Brazennose Street, Manchester, 2, was appointed liquidator.

L. SCOTT & CO. (CHEMISTS), LTD., 101 Mitcham Lane, London, S.W.16, inform us that Mr. H. F. Awcock, whose application for discharge from bankruptcy was reported in our issue of November 2, is neither employed in nor connected with the "Mitcham Lane Pharmacy" carried on by them at that address.

COMPANIES THAT MAY BE DISSOLVED.—Notice has been given in "The London Gazette" that the names of the undermentioned companies will be struck off the register three months after November 15 and the companies dissolved unless cause is shown to the contrary:—Drug Services, Ltd.; Dudley Chemical Co., Ltd.; The Herbloid Ointment Manufacturing Co., Ltd.; Medical, Dental and Associated Services, Ltd.; Nut Oils, Ltd.; Singers Cash Chemists, Ltd.; Smiths (The Chemists), Ltd.; Vitaminproducts & Vitaminwines, Ltd.; Vitiza Fertilisers, Ltd.

SOUTH AFRICAN DRUGGISTS.—This company was registered in South Africa on December 9, with a share capital of £800,000, half preference and half ordinary. It is proposed in the course of the next few days to make an issue in this country of 400,000 5½ per cent. cumulative preference shares of £1 each at 21s. per share and 400,000 ordinary shares of 5s. each at 7s. per share. The business, which has been developed mainly out of profits, has grown steadily and has become what is believed to be one of the largest of its kind trading in the Union of South Africa.

IDRIS, LTD.—Net profits for the year ended October 31, after tax, was £17,724, against £16,726 for 1933-34. A sum of £15,000 is taken by the fixed dividends on the various classes of shares (unchanged), while a further £3,300 is to be distributed (against nil last year) as to one-third in increasing the dividend on the "A" preference shares from 6 per cent. to 7 per cent., and as to the remaining two-thirds in the payment of additional dividend on the founders' shares and further remuneration to the directors. The balance forward is reduced from £12,429 to £11,853. Excluding interests in subsidiaries, floating assets total £129,000, against current liabilities, including dividend requirements and also an unstated amount for reserve for contingencies, etc., of £47,600.

TIMOTHY WHITES & TAYLORS, LTD.—The trading profit for the year ended September 28, which includes an unstated sum derived as profit on sale of investments, was £278,146, and the net revenue, after meeting depreciation, was £253,877. A final dividend of 15 per cent., making 22½ per cent. for the year, is to be paid on the ordinary shares, and the "carry-forward" is raised from £29,411 to £36,895. For 1933-34 the dividend on the deferred—now ordinary—shares was 17½ per cent., and the board consider the results just announced satisfactory, particularly as the period under review was one of reorganisation. It is stated that the company as now constituted operates 765 retail branches, including 172 shops dealing with hardware as well as drugs. Floating assets amount to £758,000 (of which £617,000 consists of stock in trade), and current liabilities to £408,000.

Bankruptcy Reports

Re John Bruce Yeats, 18 Copes Avenue, Tunstall, lately trading at Goodfellow Street, Tunstall, under the name of "Executors of the late Joseph Keightley," wholesale druggist. The public examination was held recently at the Town Hall, Hanley, Stoke-on-Trent. The statement of affairs showed liabilities of £682 2s. 6d., with assets of £28 13s. 7d., or a deficiency of £653 8s. 11d.. Debtor attributed his failure to the alleged liabilities of an insolvent partnership, and the drawings exceeding the net profits. He stated that in 1905 he entered the employment of the late Joseph Keightley, and was appointed one of his executors when he died twenty-seven years ago. In 1913 debtor entered into partnership with Mr. Keightley's sons, each of them providing £50 capital. The examination was concluded.

Re William Henry Stiles, who carried on business at Frenchgate and Axholme Road, Doncaster, as a chemist and druggist, and filed his petition in 1932. He was granted his discharge at Sheffield County Court on December 5. The liabilities were shown at £5,563 18s. 7d., of which £2,149 19s. 2d. represented the claim of his father. The assets realised £1,234 12s. 6d. The trustee paid a first dividend of 2s. 8½d. in the £ and a supplementary dividend of 13s. 6d. in the £ on proofs for £3,440 9s. 10d. The Official Receiver said it would be seen from the report that Matthew Henry Stiles provided by his will that his son should not participate in his estate until all his (debtor's) debts were paid in full. On the death of his father the debtor became entitled to a substantial interest in his father's estate, on account of which £6,300 was paid to the Official Receiver.

Gazette

Bankruptcy Acts

RECEIVING ORDER AND ADJUDICATION

RICHARDS, F. H., 88 Newport Road, Barnstaple, Devonshire, drug-store proprietor.

At the Chinese Art Exhibition



1. JADE POT-POURRI BOX. 2. CELANDON INCENSE BURNER. 3. DISTILLING JARS. CLOISSONNE ENAMEL. 4. JADE DOUBLE INCENSE-STICK HOLDER. 5. DOUBLE-GOURD-SHAPED BOTTLE. 6. PERFUME BASKET. 7. PALACE PERFUMER.

(Photos by Topical Press)

International Exhibition of Chinese Art

THE comprehensive scope of the International Exhibition of Chinese Art, which opened at Burlington House, London, W.1, on November 28 and closes on March 7, 1936, is indicated by the fact that the catalogue comprises 3,080 exhibits, and that the actual number of items is still larger. The visitor soon realises that he is undertaking a strenuous intellectual exercise, part of which consists in the adjustment of his artistic canons to others at first sight remote. The paintings, for instance, are distinguished for the most part by their subdued colouring and by the subordinate place that human figures occupy in landscapes. When he is looking at ceramics his task is easier, and there is much that even from the specialised standpoint of pharmacy is of immediate appeal. The arrangement of the Exhibition is by periods, with the twofold advantage of giving a true historical perspective and of enabling people of limited leisure to "do" the galleries with economy of time. On p. 702 we show a few of the treasures that have been lent from all over the world. There are scores of bottles, vases, and vessels used for burning or containing incense.

The earliest incense burner (570) is attributed to the Han dynasty (206 B.C.-220 A.D.); it is of interest to compare its height, 25.4 cm., with that of one of the late eighteenth-century examples (2829), 23.6 cm., though the variation in size of individual specimens sometimes exceeds this range. The Director of the Exhibition (Sir Percival David, Bt.), in a lecture reported in "The Journal of the Royal Society of Arts" for December 6, mentions that in 1570 a small exhibition of Chinese art treasures was organised in Soochow, and

that the loans included an incense burner of the Sung dynasty, 960-1279. By a coincidence, the incense burner that had been selected for illustration in this issue before the Journal was received is of the same dynasty.

Many of the porcelain bottles shown, ranging in size from an ounce or two up to about four gallons, are of fascinating beauty. A pair of distilling jars (2009, 2025) in cloisonné enamel has a strikingly decorative effect: the period given is Ch'ien-lung, 1736-95. A decorated rouge box (1585) in egg-shell porcelain has a pottery mark showing it to have been made between 1465 and 1487: it is the most ornate of several that we noticed. The Chinese Government has lent two pot-pourri containers (1626, 2870), one dating from 1426-35 and the other from a relatively modern period. A "perfume basket" (1664) made between 1662 and 1722 appears to be the only one of its kind shown; and the same remark may be made of a "palace perfumer" (2093), an elaborate piece of pottery in three tiers or sections, also dating from 1662-1722, and of an incense stick holder (2816) of the eighteenth century, in green jade. The antithesis of the hop pillow is seen in pillows of various sizes made of stone (436, 1234, 1250, 1284); and another curious article (1347), in "Northern" celadon ware, is described as a sprinkler; it derives from the years 960-1279. Among the specimens of tapestry is one (1124) worked during the Ming dynasty, 1368-1644, showing a certain T'ung Fang-so "stealing the Peaches of Longevity." This was long before the days of Voronoff, and the brief description in the catalogue arouses curiosity.

New Water Softeners

THE report of the Water Pollution Research Board for the year ended June 30, 1935 (Stationery Office, 1s.), contains a reference to recent work on the softening of water. It is stated that as a result of many experiments carried out during the past year at the Department's Chemical Research Laboratory at Teddington, it has been found that many synthetic resins prepared by the condensation of certain phenolic substances and tannins with formaldehyde possess base-exchange properties. Most of these phenolic or acidic resins are insoluble in water and in dilute acid and alkaline solutions and they are not readily disintegrated. By the use of selected resins, various cations can be removed from solutions of their compounds. After use, these acidic resins can be regenerated by treatment with solutions of acids such as hydrochloric acid or of certain salts. Exchange of cations with some of the phenolic resins appears to be selective in character, while with other resins of the same type the exchange is similar to that of base-exchange zeolites used in water softening. For example, the resin prepared in the presence of hydrochloric acid from catechol and formaldehyde will remove lead from a solution of the acetate but will not remove thallium from solutions of the nitrate. Many of the resins prepared from natural tannins are equal to commercial base-exchange zeolites in their ability to remove calcium and magnesium from hard water, and they can be regenerated with solutions of sodium chloride by the same method as that employed for zeolites; they also remove sodium, calcium and ammonium not only from aqueous solutions of salts of these cations but from solutions of the hydroxides.

It has also been found that resins prepared from certain aromatic bases, particularly those from aniline and *m*-phenylenediamine, are insoluble in water and possess the property of removing anions from solutions of acids such as sulphuric, nitric, hydrochloric and acetic acid and from solutions of salts of the acids. By treating Teddington tap water first with a tannin resin and then with a basic resin the solids in solution can be reduced from about 33 parts to 1 part per 100,000. A similar process carried out two or three times will remove most of the salt from sea water. It is added that the experiments have so far been conducted only on a laboratory scale.

Antimalarials

THE chemotherapy of anti-malarial substances (which has been developed from the technique of Roehl for testing such drugs in bird malaria) was the subject of discussion in Section B (Chemistry) at the British Association meeting at Norwich.

Plasmoquine (discovered in 1924) and atebrin (1930) have one feature in common, a dialkylaminoalkylside-chain ($-\text{NH}.\text{CHME}.\text{CH}_2.\text{CH}_2.\text{CH}_2.\text{NEt}_2$) attached at position 8 in 6-methoxyquinoline and at position 5 in 2-chloro-7-methoxyacridine in the case of atebrin. Plasmoquine acts preferentially on the sexual forms (crenants or gametocytes) of the malaria parasite, while atebrin and quinine affect the asexual forms (schizonts). The discovery of "anti-gametocyte" and "anti-schizont" activities led to the synthesis of potential antimalarials. One of these, with the side chain of plasmoquine replaced by $-\text{NH}.\text{CH}_2.\text{CH}_2.\text{CH}_2.\text{NH}.\text{CH}_2.\text{CH}_2.\text{CH}_2.\text{NH}_2$, has a chemotherapeutic index of 1:62, against 1:32 for plasmoquine, and is thus promising material for clinical trial. Bird malaria tests show that quinine is about twice as active as an anti-schizont as quinidine or cinchonidine, and possibly five times as active as cinchonine.

Colonel S. P. James stated that the defects of quinine and the need for alternative antimalarials became strikingly evident during the war. The first and by far the most important defect of quinine is that it does not prevent infection, as believed until a few years ago. In a comparative trial against infection with malignant tertian malaria, all those taking quinine were attacked within the usual incubation period, whilst those taking atebrin or plasmoquine were free from malarial attack. A second defect of quinine is that it is not equally effective against all species and strains of human malaria parasite. However, this is common to all known antimalarials, and that is why it is desirable to have several drugs so that when one fails another may be tried. Thus strains of malignant tertian malaria, not susceptible to quinine, proved to be very susceptible to atebrin. On the other hand, some strains of benign tertian malaria react quicker to quinine, and many clinicians prefer to "break the fever" with quinine and continue later with atebrin. A third defect of quinine is that it is not very effective in preventing relapses. Plasmoquine, in doses as small as two centigrams, is effective in preventing mosquito infection and spread of disease from infected persons by this means.

Trade Notes

BEECHAMS LUNG SYRUP.—Beechams Pills, Ltd., St. Helens, Lancs, announce an extra discount on Beechams Lung Syrup. Full details are given in our advertisement pages.

REDUCTION IN BOTTLE PRICES.—W. King & Co., 50 Fore Street, London, E.C.2, announce reductions in prices of alpha and remco pipette bottles. Full particulars are given in our advertisement pages.

A PHOTOGRAPHIC COMPETITION.—Johnson & Sons Manufacturing Chemists, Ltd., Hendon Way, London, N.W.4, will send on request supplies of leaflets giving details of their flashlight competition, the closing date for which is February 29, 1936.

DOG AND CAT FOODS.—A. F. Sherley & Co., Ltd., 18 Marshalsea Road, London, S.E.1, draw attention to three new items relating to Sherley's dog and cat foods and medicines. These concern Sherley's tonic and condition powders, cat condition powders, and the dating of Lactol tins.

ELECTRIC HEATING PAD.—The Auto-Maid Vacuum Cleaner Co., 62 Blandford Street, London, W.1, issue electric heating pads and bed-warming appliances. The advantage of the heating pad is that a continuous flow of heat is maintained. A heat regulator is attached so that three different temperatures are made available according to the requirements of the case. In addition to being useful as a bed warmer the appliance can be used for application in cases of rheumatism, sciatica, etc. Three varieties of the pad are issued, and in addition an electrically heated radium compress which, it is claimed, contains the curative properties of radium and heat, is also available. Further details may be obtained on application.



varieties of the pad are issued, and in addition an electrically heated radium compress which, it is claimed, contains the curative properties of radium and heat, is also available. Further details may be obtained on application.

EXHIBITION OF MICROSCOPES.—The third annual Exhibition of Microscopes is being held at the Central Hall, Westminster, London, S.W.1, from December 9 to 14. Admission free. Programmes of the Exhibition may be obtained from W. Watson & Sons, Ltd., 313 High Holborn, London, W.C.1.

INCREASED SALES.—H. W. Graesser-Thomas, Ltd., 49 Leadenhall Street, London, E.C.3, state that their total sales from the first day of the year to the end of last month were 53 per cent. greater than for the whole of 1934. In offering their greetings for 1936 they express the wish that their present customers and others may entrust them with their orders during the coming year.

A NEW MEDICAMENT.—The Crookes Laboratories, Gorst Road, Park Royal, London, N.W.10, have recently introduced Estoform, which is described as a new anti-spasmodic substance for use in the treatment of chronic and acute bronchitis, coughs and asthma. Estoform presents an orthoformic ester combined with the extracts of *Prunus Virginiana* and senega in a glycerin-spirit base. Estoform is packed in 4 oz. bottles and literature may be obtained on application.

"BRITISH EMPIRE TRADES INDEX."—Business Dictionaries, Ltd., 8 Johnson's Court, Fleet Street, London, E.C.4, have just issued the 1935-36 edition of the "British Empire Trades Index" (5s. post free). This volume of 608 pages, which contains references to over 40,000 British firms, is divided into three sections: (1) Classified trades lists of manufacturers, producers and distributors with cable, postal addresses and telephone numbers; (2) names alphabetically arranged and cross-referenced; (3) trade marks and brands register.

Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1935, p. 323.

(From "The Trade Marks Journal," November 27, 1935.)

- "TONYEX"; for veterinary preparations for internal use (2). By The British Poultry & Animal Research Co., Westminster Bank Chambers, St. Mary's Road, Garston, Liverpool, 19. 561,711.
- "Bst EVR" and "H. B. B." in square shape with design of cross (letters disclaimed); for disinfectants (2). By Heap Bros., Brief Street, Devonshire Road, Burnley, Lancs. 562,373.
- "TESTONIC" over man supporting large dumbbell ("Testonic" disclaimed); for medicated tablets (3). By W. B. Hubble, 41 Cranbourn Street, London, W.C.2. 559,487.
- "LENCIL"; for medicinal chemicals (3). By L. R. Cooper & W. G. C. Perry, 16 Joel Street, Northwood Hills, Middlesex. 559,147.
- "ASAMATON"; for preparations for treatment of cardiac, diuretic and respiratory ailments (3). By R. J. Thomson, 18 Brookfield Road, London, W.4. 561,420.
- "NOXZEMA SKIN CREAM" with design ("Z" disclaimed) varied by substitution of other words for "Skin Cream"; for medicated preparations (3). By the Noxzema Chemical Co., 3100 Falls Cliff Road, Baltimore, Maryland, U.S.A. 541,582.
- "NEO-PROBLIN"; for medicinal chemicals (3). By W. R. Warner & Co., Ltd., 300-302 Gray's Inn Road, London, W.C.1. 559,638.
- "J. McNALLY" facsimile signature; for medicinal chemicals (3). By John McNally, Bandon Grove, via Longreach, Western Queensland, Australia. 562,021.
- "BOJESTON" on label design; for preparations for treatment of indigestion (3). By Invicta Proprietaries, Ltd., 6 to 16 Gallowgate, Newcastle-on-Tyne. 563,177/178. (Associated.)
- "HEPPEROL"; for medicinal chemicals (3). By A/S. Serpens, Gyldenlovesgade 1, Copenhagen, Denmark. 563,092.
- "TAKOSAN"; for medicated preparations (3). By T. Martin, 31 High Street, Kirriemuir, Scotland. 563,718.
- "CURCUNAT"; for medicinal chemicals (3). By Firma Temmler-Werke Vereinigte Chemische Fabriken Hermann Temmler, 6 Flugplatz, Berlin-Johannisthal, Germany. 563,532.
- "STANBRAN"; for cream of tartar substitute (42). By Standard Brands, Ltd., Aldwych House, Aldwych, London, W.C.2. 563,007.
- "BRYLFOME"; for shampoo preparations (48). By the County Chemical Co., Ltd., North Circular Road, Park Royal, London, N.W.10. 562,412. (Associated.)
- "A P W A C"; for perfumery, etc. (48). By A. C. L. Cole, Mena House, Copland Avenue, Wembley. 563,293. (Associated.)
- "FETAL"; for goods (47) and for perfumery, etc. (48). By Deutsche Hydrierwerke A.-G., Kantstrasse 163, Berlin-Charlottenburg, Germany. 562,569/570. (Associated.)

APPLICATION AMENDMENT

The specification for "IRRAVITA" in Class 3, No. 562,338, by Radiovin (Vitamin D), Ltd., has been amended to exclude medicated foods consisting principally of flour, wheatmeal or other cereals.

(From "The Trade Marks Journal," December 4, 1935.)

- "RHODOX"; for chemicals (1) and (2). By British Dyestuffs Corporation, Ltd., Imperial Chemical House, Millbank, London, S.W.1. 562,959; 563,187. (Associated.)
- "OPTIMOL"; for chemicals (1). By The Walpamur Co., Ltd., 35-36 Rathbone Place, Oxford Street, London, W.1. 552,733. (Associated.)
- "ZOL"; for wood preservatives (1). By J. R. J. Jones, "Grip Works," Dolphin Lane, London, E.14. 564,188.
- "MIXOL"; for a tar petroleum wash (2). By Cooper, McDougall & Robertson, Ltd., Ravens Lane, Berkhamsted. B555,621.
- "EMRYNO"; for disinfectants (2). By Marjorie Swift, Salt Hill, Slough, Bucks. 562,297.
- Design of Fishing Boat; for veterinary preparations of cod-liver oil (2) and medicinal preparations (3). By British Cod Liver Oil Producers (Hull), Ltd., St. Andrew's Dock, Hull. 560,742/743. (Associated.)
- "CONSORT"; for dog medicine (2). By T. Smith, 58 West Regent Street, Glasgow, C.2. 564,092.
- "LENIFEDRINE"; for preparations made or derived from ephedrine (3). By A. Landrin, 135 Boulevard Haussmann, Paris. 558,692. (Associated.)

Births

Notices for insertion in this column must be properly authenticated

WAIDE.—At Brook-Royde, Weeton, Leeds, on December 6, the wife of Thomas V. Waide (director of Thomas Waide & Sons, Ltd., printers, Leeds), of a son.

WATSON.—At "The Highlands," Creswell, Stafford, on November 27, Dorothy, the wife of R. Blair Watson, chemist and druggist, of a son.

Marriages

BERNIE—JENKINS.—At Trinity Church, Hoylake, on November 30, James Bernie (representative of The British Drug Houses, Ltd.), to Mary Jenkins.

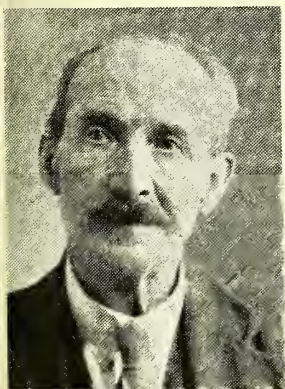
CROFTS—BURGESS.—At St. Mary's Church, East Farleigh, Kent, on December 1, Robert, only son of Mr. R. Crofts, chemist and druggist, Canterbury, to Kathleen Naomi Burgess.

SANSOM—PORTER.—At St Bartholomew's Church, Brighton, on December 7, Kenneth Howard Sansom, chemist and druggist, to Winnifred Nellie Porter.

Deaths

CALEY.—Recently, Mr. John Maddison Caley, chemist and druggist, for sixteen years pharmacist at the Royal Hospital, Wolverhampton.

DOUGAL.—In Edinburgh, on December 4, Mr. John Wilson Dougal, Ph.D., founder and proprietor of the Dunedin Chemical Co. Dr. Dougal graduated B.Sc. at Edinburgh University in 1907, and was awarded a scholarship in technical chemistry. To geologists he was known as the investigator who discovered the flinty-crush belts of the Western Isles; in recognition of his geological research he received the degree of Ph.D. from Edinburgh University in 1928, and his discovery received further acknowledgment at the Glasgow meeting of the British Association in the same year. Dr. Dougal was well known to chemists as an able lecturer, in which capacity he appeared from time to time at evening meetings of the North British Branch of the Pharmaceutical Society. Dr. Dougal founded



DR. JOHN WILSON DOUGAL

his business in 1908. The works are at Royal Park Place, Edinburgh, and the business will be continued by his son, Mr. Alexander Dougal.

WYATT.—At Norwich, on November 30, Mr. William Wyatt, chemist and druggist, aged seventy-six.

Personalities

ALDERMAN C. A. CRITCHLEY, J.P., Ph.C., ex-Mayor of Blackburn, has been appointed deputy mayor.

COUNCILLOR C. J. V. BELLAMY, M.P.S. (Druce & Co., chemists, Oxford), has been elected chairman of the public health committee for the city.

MR. L. CHAMBERS, chemist and druggist, Halifax, who is chairman of the Corporation health committee, has been elected chairman of the Halifax Insurance Committee.

MR. JAMES A. JOHNSTONE, chemist and druggist, Wallingford, has been elected honorary treasurer of the local Free Library.

MR. D. R. ANDERSON, M.P.S. (representative for Stemco, Ltd., in Yorkshire), has removed to 41 Talbot Avenue, Leeds, 8.

COUNCILLOR ALBAN ATKIN, M.P.S., M.I.C.O., West End Lane, London, N.W.6, has been re-elected to the finance and general purposes committees of Hampstead Borough Council.

MR. AUBREY DUDLEY, who for many years has managed the printing works of Dudley & Co., Ltd., 451 Holloway Road, London, N.7, has been appointed to the board of directors.



MR. AUBREY DUDLEY

MR. S. GREENBURGH, B.Sc., F.I.C., M.P.S., public analyst, Cambridge, has been invited to give a course of lectures on "The Pollution of Rivers and Water Supplies" at the Battersea Polytechnic, London.

MR. J. S. SNELL, J.P., chemist and druggist, Accrington, gave an address entitled "Believe It or Not" before the local Rotary Club recently.

MR. R. H. HENRIKSEN, chemist and druggist, has been appointed pharmacist to the London County Council Mental Hospital, West Park, Epsom.

MR. W. RAMAGE, chemist and druggist (Pollard & Ramage, Ltd., chemists, Ryde), has been appointed founder-secretary of the Sir Arthur Holbrook Lodge of Mark Master Masons, which was recently consecrated at Ryde.

DR. STANLEY WHITE (chief of the medical department of Parke, Davis & Co., in Europe) recently addressed in Stockholm the Swedish Society of Internal Medicine and the Physiological Society. It is of interest to record that the Swedish medical profession can follow a scientific lecture in a foreign language.

BRO. W. E. FORD (Sangers, Ltd., London, N.W.) was installed Worshipful Master of the Claremont Lodge No. 1861, Province of Surrey, at Croydon on November 25. Among those present connected with the drug trade were:—W. Bro. Worssam, Bro. W. J. Little, Bro. E. A. Geddes (Sydenham), E. M. Holding (Dagenham), and R. W. Wenmoth (Herne Hill).

Business Changes

TIMOTHY WHITES & TAYLORS, LTD., have opened a branch pharmacy at 7 Swan Lane, Guildford.

MR. R. TAYLOR, F.S.M.C., chemist and druggist, has opened a shop at 39 Albert Road, Morecambe.

L. W. MUSSELL, LTD., chemists and druggists, have recently opened a branch at Mackett's Lane, Hunt's Cross, near Liverpool.

MR. ALEXIS L. PARKER, B.Sc., chemist and druggist, has joined the staff of James Taylor (Trongate), Ltd., wholesale and manufacturing chemists, Glasgow.

MR. ARTHUR M. KENNARD, chemist and druggist, has acquired the pharmaceutical and radio business of Mr. W. H. Thomason at 205 Ashley Road, Parkstone.

MR. DAVID WYSE, chemist and druggist, Kingskettle, has taken over the business of A. L. & A. M. Parker at 12 John Wood Street, Port Glasgow, which will continue to operate under the same name.

MR. W. H. HOWARD has been appointed a director of James Woolley, Sons & Co., Ltd., Victoria Bridge, Manchester, 3. Mr. Howard has been with the firm forty-nine years and succeeded Mr. Twining as manager of the surgical and scientific instrument department.

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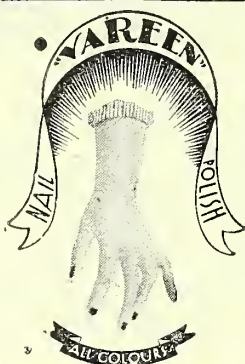
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| Violet bath perfume | J/91. Night in Vienna perfume |
| E/11. Fox's composition essence | M/10. Starch bandage (new type) |
| A/31. Pills' calf's foot jelly | |

THE CHEMIST AND DRUGGIST

VOL. CXXIII.

December 14, 1935

NO. 2914

An American Doctor Looks at N.H.I.

To a recent issue of "The Journal of the American Medical Association" (105, 18) Dr. Edward F. Klein has contributed a detailed study, extending to about 4,000 words, of the panel system in Europe, with special reference to England and Wales. Dr. Klein's main object in writing is evidently to indicate the attitude he thinks should be taken by United States medical practitioners towards any proposals that may be made for setting up State medical services in that country. He opens somewhat portentously with a quotation from "King Lear" beginning, "I'll look no more"—which may, of course, be a type of gambit approved in American medical circles for an article of this kind. His arrangement of the facts relating to panel practice in England and Wales, so far as they concern his readers, is good; and he remarks incidentally that those who launched our first National Health Insurance Act had the advantage of studying the experiences of other countries, Germany having introduced a corresponding scheme in 1883, Austria in 1885 and Hungary in 1891. Dr. Klein's observations on present-day panel conditions in Germany, Austria, Hungary, Jugo-Slavia and Holland are brief, and are interpolated among the comments near the end of his article: it may therefore fairly be inferred that his conclusions are mainly derived from a study of what he has found in the English system. He points out, among other data, that in this country the money paid in sickness and disablement benefits amounted to £6,708,000 in 1920, £14,689,000 in 1928, and £20,131,930 in 1934. The latest figures he gives for the cost of "drugs" are £1,886,874 in 1927 compared with £1,189,450 in 1921: readers of THE CHEMIST AND DRUGGIST are in possession of later and more detailed statistics.

Dr. Klein's conclusions, formulated with the aid of several quotations from other authors, are definitely hostile to the introduction in the United States of any panel system comparable to that in vogue in England and Wales. He writes:—

"Obviously if any conclusions can be drawn from my remarks it is that panel medicine is medicine in a hurry, it is medicine by fear and threats, by bookkeeping, by penalties, by regulations and by starvation wages. . . . Dr. Dain, chairman of the Insurance Acts Committee of the British Medical Association, said in his foreword to the third edition of the Medical Insurance Practice, 'It must to many have seemed amazing that so everyday a matter as the doctoring of a person could have produced or required such a mass of regulation.' Do masses of regulation go hand in hand and concomitant with the good health of our people? . . ."

"C. W. Armstrong, in 'The Survival of the Unfittest,' says, 'All states upon which a premium is set tend to become more common.' If sickness and unemployment receive as premium a free gift of other people's money, these states will therefore tend to spread. . . . In 1930 Dr. Alfred Cox, late secretary of the British Medical Association, in a paper contributed at the Congress of the Royal Sanitary Institute, said: 'My correspondents nearly all agree that the insurance system combined with other forms of social assistance has had a bad effect on the morale of the working class. They regard public funds as inexhaustible.'

"The evidence is conclusive that, despite the payment of extraordinary sums, compulsory health insurance is an absolute

failure to reduce the amount of sickness of workers. Where are all these schemes leading to? What are the prospects for those entering the profession in large numbers to-day? . . . What, then, is panel medicine? It is medical terrorism. It is medicine blank and void of hope and endeavour."

This pessimistic summing up is capped with a quotation from a Charles Hastings lecture by Sir George Newman: "There should be no crossing of the medical bar, but hand in hand, the Government should go forward with the doctors 'upon the prow of the ship of civilisation' in the bitter battle against disease." Sir George Newman presumably knew what he meant by this oracular pronouncement; but it is difficult for the average reader to guess what the Government and the doctors, standing with linked hands upon the prow, propose to do if the ship remains inside the medical bar. We are aware that medical men with panel practices work hard for their fees; that is the lot of many citizens who regard it as a matter of course. We have formed the opinion that the medical profession is in a privileged position in relation to National Health Insurance, and we are not impressed by the advocacy of this observer from overseas. Pharmacists and their sons and daughters go to the trouble and expense of qualifying as medical practitioners, year by year, in not inconsiderable numbers, a circumstance indicating that, after due consideration, they think the cost and labour justified by the result.

Key Industry Chemicals

The publication this week by the Board of Trade of the list of products to be re-exempted from liability to key industry duty from January 1 to August 19, 1936 (the date of expiry of the Act), includes one or two surprises. In the first place, it was a general opinion that oxalic acid would be put back on the dutiable list. It will be remembered that a year ago the department, having been satisfied that production within the Empire (in this case within this country) would be adequate to meet normal requirements within a reasonable time, decided not to recommend the Treasury to include it in the list of products to be exempted for the current year. This decision brought forth an immediate and strong protest from consuming interests and within a few days a special order was issued permitting free import of oxalic acid for the first three months of 1935; later, the exemption was extended to cover the whole year. The subject was next referred to in the annual report of the Association of British Chemical Manufacturers published in October last, when it was claimed that production of this product was now due to commence. Another product which has been re-exempted is phenazone; apparently the persistent rumours of a home source of supply were incorrect, or, possibly, it has not yet been sufficiently developed to claim the imposition of duty on imports. The only products of any importance that will become dutiable on January 1 are guaiacol carbonate (duotal) and urea (carbamide), supplies of which are reported to be available from home sources.

The key industry duties were first imposed in 1921 for a period of ten years; in 1931 their operation was extended to August 19, 1936. The Import Duties Advisory Committee has been requested to report on the subject of the future of these duties. It seems that the only point at issue is whether the separate identity of "key" industries shall be maintained, or the protection thus afforded the

home manufacturers would not be better operated in future if it was carried out under the Import Duties Act, 1932. The manufacturers, through their organisation, have made it clear they would prefer the duties to be carried on as hitherto, claiming . . . "that the future development of the industry in the national interests as a cohesive whole would be assured with greater security by the continuation of the Safeguarding of Industries Act. . . ." We believe the merchanting interests have also indicated to the Import Duties Advisory Committee that they favour the continuance of the duties under a separate Act. The origin of the duties was the outcome of the experience of the war, and the necessity for the protection given to these "key" industries, of which that of manufacturing chemicals is by far the most important, was admittedly that of national safety; quite rightly the subject was treated as being a non-party issue and the arguments for and against a general tariff had no bearing on it whatever. The position to-day is the same as it was in 1921; unfortunately, it has to be admitted the need to-day for taking full precautions to ensure national safety, as reflected by the protection of key industries, is even more acute than it was fifteen years ago. Besides losing their distinctive character the key industries' duties would, if merged into the Import Duties Act, 1932, possibly clash with some of our international trade agreements and might, in the event of a radical change of opinion in Parliament on the subject of general protection, be threatened with cancellation.

Chloroform - D

"HEAVY" chloroform, chloroform-*d* or deuterio-chloroform, containing "heavy" in place of ordinary hydrogen has been prepared by F. W. Breuer ("Journal of the American Chemical Society," pp. 2236-37). It was made by the action of "heavy" caustic soda, NaOD, on chloral. Its identity as CDCl₃ free from ordinary chloroform was established by its Raman spectrum. The boiling point of the new compound is half a degree higher and the freezing point half a degree lower than those of chloroform, but its refractive index is the same. Its specific gravity is slightly greater (1.5004, compared with 1.4888). Chemical properties show no marked differences from ordinary chloroform.

Essential Oil of Cyperus

It is stated by B. Jagannath Hegde and B. Sanjiva Rao, of the Indian Institute of Science, Bangalore (J. Soc. Chem. Ind. 54, No. 46, 387T-389T), that *Cyperus rotundus* Linn. abounds through India and spreads quickly by means of underground rhizomes. Both the Chinese drug "Hsiang-futzu" and the Japanese drug "Kobushi" are obtained from *Cyperus rotundus*. A previous examination of the oil from the rhizomes showed it to be a mixture of di- and tri-cyclic sesquiterpenes and sesquiterpene alcohols. As a result of this examination the lower boiling fraction of the oil has been found to consist mainly of *l*- α -pinene with traces of cineole, thus accounting for the camphoraceous odour of the oil. The higher-boiling hydrocarbons have been shown to be a mixture of tri- and di-cyclic sesquiterpenes, the latter predominating. Two of the di-cyclic sesquiterpenes belong to the endalene group. Most of the alcohols in the oil were tertiary. Much of the tertiary alcohol combined with boric acid, but the boric ester could be only partly decomposed and the yield of alcohol was only 10 per cent. The tertiary alcohol that remained uncombined with the boric acid appears to be identical with that obtained by hydrolysis of the boric ester. This new alcohol is called *isocyperol* (C₁₅H₂₄O) and is di-cyclic, belonging to the endalene group of sesquiterpene compounds. The oil contained 30-50 per cent. of a sesquiterpene ketone, α -cyperone. The samples of tubers were disintegrated and distilled in steam, and the oils obtained dried over magnesium sulphate and examined.

Australian Chemical Trade

ACCORDING to the Report on Trade Conditions in Australia, recently issued by the Department of Overseas Trade, the total imports of drugs, chemicals and fertilisers during the twelve months ended June 1934 were valued at £3,384,857 in 1933-34, compared with £3,687,498 in the previous year, but a fair proportion of the total is made up of items of no interest to the United Kingdom, such as argol, certain fertilisers and potassium salts and mineral chemicals, such as sulphur. If this non-competitive trade is omitted from the total, the balance, or competitive trade, in 1933-34 amounted to £2,230,659, of which the United Kingdom secured £1,409,375, or 63 per cent., an increase of $\frac{1}{2}$ per cent. compared with 1932-33. The following table shows the position in regard to the division into competitive and non-competitive trade in 1933-34:—

From—	Competitive £	Non-Competitive £	Total £
United Kingdom ...	1,409,375	3,720	1,413,095
Other countries ...	821,284	1,150,478	1,971,762
	2,230,659	1,154,198	3,384,857

The United Kingdom continues to supply the bulk of the imports of proprietary medicines (£114,055 in 1933-34 out of a total of £195,502), other drugs and medicines (£74,086 out of £118,520), dyes (£185,246 out of £232,155), and soda ash (£94,521 out of £149,678), which are the most important competitive items enumerated in the returns. The United Kingdom also secures the greater portion of the trade in a number of other items of smaller volume, but there still remain many items in this class in which there is considerable competition, principally from Germany and the U.S.A. The following table gives details of the imports of these severely competitive items in 1933-34:—

	Total Imports	Imports from United Kingdom	Imports from other Countries
Acetone ...	7,186	588	6,598
Bacteriological products and serums	14,640	2,814	11,826
Bromine and bromides	9,045	1,914	7,131
Calcium acetate	1,031	3	1,028
Carbon tetrachloride	3,124	422	2,702
Crude drugs	16,431	1,715	14,716
Menthol	4,449	42	4,407
Sodium nitrate	24,670	9,828	14,842
Nicotine and derris spraying preparations...	9,807	3,759	6,048
Insecticides and disinfectants, n.e.i.	12,572	6,091	6,481
Lactose	14,036	5	14,031
Magnesium oxide	1,911	505	1,406
Essential oils, non-spirituous	70,643	12,581	58,062
Perfumery, non-spirituous	53,881	21,908	31,973
Toilet preparations, n.e.i., non-spirituous	69,686	32,708	36,978
Rennet	13,368	3,646	9,722
Borax	17,464	5,382	12,082
Ethers, n.e.i.	4,988	894	3,094
Perfumed spirits and bay rum	23,923	7,155	16,768

The position of the United Kingdom in the severely competitive portion of this class has been steadily improving during the last few years, largely by reason of the securing of an increasing share of the trade in chemicals not specially enumerated in the returns. On the other hand, there were some noteworthy decreases in the share obtained by the United Kingdom in 1933-34 compared with the previous year, including acetyl-salicylic acid (from 26 to 7 per cent.), boric acid (from 42 to 16 per cent.), arsenic compounds, other than lead arsenate (from 24 to 14 per cent.), bacteriological products and serums (from 21 to 19 per cent.), bismuth metal and salts (from 99 to 86 per cent.), bromine and bromides (from 83 to 21 per cent.), crude drugs (from 14 to 10 per cent.), proprietary medicines (from 63 to 58 per cent.), sodium nitrate (from 53 to 40 per cent.), lactose (from 49 to practically nil), coal tar (from 97 to 38 per cent.), essential oils, non-spirituous (from 22 to 18 per cent.), potassium nitrate (from 64 to 47 per cent.), sodium acetate (from 20 to 12 per cent.), borax (from 50 to 31 per cent.), soda ash (from 74 to 63 per cent.), and sodium salts, n.e.i. (from 83 to 78 per cent.).

United States Pharmacopœia XI

AS briefly announced in *THE CHEMIST AND DRUGGIST*, December 7, p. 680, the U.S.P. Board of Trustees has fixed the date when the standards of the U.S.P. XI shall supersede those of the U.S.P. X. We have taken the following paragraphs from an explanatory memorandum circulated by Mr. E. Fullerton Cook, chairman of the Committee of Revision.

The members of the Committee of Revision and Board of Trustees accept and have announced the programme of "Interim Revisions," with possibly annual supplements. They are conscious of the rapidity with which modern scientific developments are certain to necessitate new revisions in many monographs. In many cases it will be unwise to wait for another decennial revision before revising texts; in fact, during this revision some texts were revised several times while awaiting publication.

Since the final decisions on admission in any revision of the Pharmacopœia must depend upon the composite judgment of those selected to perform that duty, it is to be expected that others may differ in judgment, but the deliberations of the members of this subcommittee [the subcommittee on scope], which consisted of eighteen physicians and five pharmacists, were earnest, thorough and well supported by therapeutic evidence, the latter being supplied in many instances by the subcommittee on therapeutics. The major decisions were reached after extensive preliminary studies and subsequent personal conferences. This subcommittee has held four conferences, when practically every member was present. . . . Several items, such as insulin, were admitted by vote, but patents or other factors prevented their admission. At an appropriate time the "Interim Revision" plan will admit such important therapeutic agents.

It may be interesting to note that the U.S.P. XI contains 568 titles, of which about 430 have approved therapeutic usefulness, although many have similarity in action, such as the various quinine salts, the iodides, the bromides, the barbiturates, etc. The remainder are pharmaceutical necessities, including many crude drugs not administered themselves but employed to make dosage forms of medication. These must necessarily be standardised. In the list of admissions will be found 131 pharmaceutical formulas, approximately 30 per cent. of the list of therapeutic agents. Most of these formulas can be prepared in the retail pharmacy. . . . The statement has sometimes been made that the Pharmacopœia is no longer a book for the practising pharmacist, but any pharmacist desiring to do so, and finding it economically practicable, will find in the U.S.P. XI the working formulas for many of the most important pharmaceutical preparations he dispenses, and the hospital pharmacist will be able to use the working formulas of the U.S.P. XI in his laboratory greatly to the economic advantage of the hospital.

Nomenclature

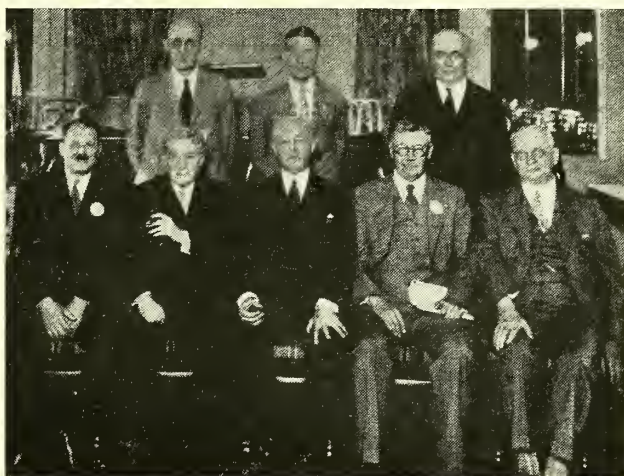
The new spelling of sulfate, sulfur, etc., conforming to modern usage, may seem strange at first, but it did not take the members of the Committee long to accustom themselves to it. Most of the changes seem logical, such as the adoption, finally, by the U.S.P., of the universally used "saccharin," the use of "posterior pituitary" in place of "pituitary," necessitated by the use to-day of the whole gland and of the anterior lobe. Other changes may seem strange, but they were adopted for reasons which the subcommittee believed to be sound. For instance, the Food and Drug Administration asked that "compound powder of glycyrrhiza" become "compound powder of senna" to indicate the more potent constituent, and the physicians of the Committee insisted upon changing the title of "compound mixture of glycyrrhiza" to "compound mixture of opium and glycyrrhiza." In all of these cases the synonyms remain, and these products will probably always be known to the layman as compound licorice powder and brown mixture respectively.

The development of two advisory boards, dealing with the standards for vitamins and for anti-anæmia products, are valuable new features. The Vitamin Board is now conducting

a series of studies of vitamin B₁ assay methods in which twenty-six laboratories in this country and abroad are participating. The U.S.P. XI has adopted a number of international standards, such as those for vitamins A and D and for digitalis and those approved by the last Brussels Conference. Throughout the revision the Committee has maintained a most friendly co-operation with the British Pharmacopœial Commission in an effort to harmonise the titles and standards of these two Pharmacopœias. A new feature is the suggestion . . . that prescriptions calling for percentage solutions be prepared, when not otherwise directed, by dissolving the substance (if a solid) in accordance with the principle of "weight in volume."

Alternative Formulas or Procedures

Authority is given as heretofore . . . to modify official processes, if necessary, in large-scale production, provided the finished product conforms to the U.S.P. standards. This, however, does not permit a variation from the identity or quality of the prescribed ingredients, unless specifically indicated, and the definition, description, manufacturing formula,



U.S. PHARMACOPEIAL CONVENTION

Standing (left to right): PROFESSOR WILLIAM B. DAY; DR. E. F. KELLY; DR. W. BRUCE PHILIP

Seated (left to right): MR. E. FULLERTON COOK; DR. S. SOLIS-COHEN; DR. WALTER A. BASTEDO; PROFESSOR JAMES H. BEAL; MR. SAMUEL C. HENRY

directions for manufacture, description of physical properties, tests for identity and purity and the assay and other specifications in the General Notices or elsewhere must all be considered as elements in the official tests for strength, quality and purity. The strength of drugs or preparations for which assays are given is to be determined only by the official methods. In some formulas alternative ingredients or a variation in the amount of ingredients is permitted under carefully regulated conditions. This applies specially to the coating of pills, to a change in the proportions of stiffening agents in ointments or cerates . . . to emulsifying agents . . . and to variations in preservatives in solutions intended for parenteral use. . . . When no formula is given . . . any method of manufacture may be used provided the product conforms to all of the official standards. Reference standards for aconite, ergot, digitalis, strophanthin, posterior pituitary, pepsin and vitamins A and D will be available. These are distributed through the office of the chairman of the Committee of Revision.

Some Important Changes

INCREASED STRENGTH OF ACIDS.—*Hydrochloric Acid*, 35 to 37 per cent. (formerly 31 to 33 per cent.); *Nitric Acid*, 67 to 70 per cent. (formerly 67 to 69 per cent.); and *Sulfuric Acid*, 94 to 98 per cent. (formerly 93 to 95 per cent.).

ETHER FOR ANÆSTHESIA AND SOLVENT ETHER.—Under the title "Ether" the Pharmacopœia is specifying that quality of ether which is believed best suited for anæsthetic purposes. The packaging specification, which has been an official requirement for ten years, is continued, namely "CAUTION.—Ether to be used for anæsthesia must be preserved only in small, well-closed containers, and is not to be used for this purpose if the original container has been opened longer than twenty-four hours. A solvent ether is now also recognised under the title "Ethyl Oxide." This has less rigid standards for the limit of aldehydes and peroxides.

BIOLOGICAL PRODUCTS.—The list has been materially extended. . . . The official products now include the following: *Antitoxins*, Diphtheria, Scarlet Fever and Tetanus; *Serums*, Antimeningococcic and Antipneumococcic, Type I; *Toxins*, Diphtheria Toxoid, Diphtheria Toxin for the Schick Test and Scarlet Fever Streptococcus Toxin for the Dick Test, Old Tuberculin; *Vaccines*, Rabies, Typhoid, Typhoid and Paratyphoid "A" and "B," and Smallpox.

CAMPHOR AND MENTHOL.—In addition to the natural products, synthetically produced Camphor and Menthol are now accepted as official products, provided they conform to all U.S.P. tests.

ACTIVATED CHARCOAL.—The new official Charcoal is a product from the destructive distillation of various organic materials which have been treated so as to greatly increase its adsorptive power. Exacting tests are provided to ensure purity of the product, and three additional tests to indicate a minimum adsorptive power for alkaloids, methylene blue and for sulfide gas. A note is also added stating that when "Carbo Ligni" is prescribed "Carbo Activatus" may be dispensed.

DIGITALIS.—The whole or ground digitalis leaf is still official for the purpose of manufacturing the tincture, the "standardised powder" or other unofficial digitalis preparations, but whenever "Digitalis" is prescribed hereafter for administration in pills or capsules or in accordance with the new National Formulary when the Infusion of Digitalis is prescribed, the only form of Digitalis to be used is the new U.S.P. XI "Standardised Powdered Digitalis." One-tenth gm. of this Standardised Digitalis Powder is to possess an activity equivalent to not less than 1 and not more than 1.1 U.S.P. digitalis units. Likewise, the U.S.P. XI Tincture of Digitalis is to have an activity such that 1 c.c. shall be equivalent to not less than 1 and not more than 1.1 U.S.P. digitalis units, which is one-tenth the strength of the Standardised Powder. Incidentally, the new U.S.P. Powder and Tincture of Digitalis will be approximately 25 per cent. more potent than was required in the U.S.P. X. . . . An extensive study of assay methods for digitalis is now under way, with the co-operation of a group of leading heart specialists. . . . Every promising bio-assay method will be checked against clinical findings and in relation to deterioration. The study will require several years for completion, and the British Pharmacopœial Commission is participating in both the clinical and bio-assay studies.

EMULSIONS.—The formulas for the Emulsions of Cod-Liver Oil and Liquid Petrolatum are written for the practising pharmacist to prepare in a mortar. An alternative, however, is allowed so that these emulsions may be prepared by mechanical methods whereby the notable thickening of the product if the same amount of acacia is used which is necessary for the hand-made emulsion. Other official emulsifying agents are also permitted provided the resulting emulsion is similar in viscosity and appearance to the product made by the hand method.

EPHEDRINE.—Among the new U.S.P. medicinal products are the alkaloid Ephedrine and its salts, the Hydrochloride and Sulfate. The new National Formulary will provide formulas for nasal and throat sprays and for a jelly containing this alkaloid.

ERGOT.—The cock's-comb assay for Ergot has been retained, using ergotamine ethanesulphonate as the standard. Many new discoveries concerning the chemistry of this drug have been published within the last year or two, indicating need for further study before changes are made in the assay. The U.S.P. Committee is planning extensive additional studies of this assay. It has recently been contended that the description of Ergot should require that every sclerotium of ergot to be accepted as of U.S.P. quality must be "internally white."

The chairman of the subcommittee on botany and his associate have thoroughly investigated this question. . . . As the result of this study the U.S.P. XI description of Ergot, with reference to the internal appearance of the sclerotia, is as follows: "Internally white, sometimes a relatively few sclerotia tinged with pink, lavender or grey."

BICHLORIDE TABLETS.—The large and small (Bernay's) Tablets of Mercury Bichloride as recently announced by "Interim Revision" have been retained. These monographs require that the "Bichloride Tablets" must be of a distinctive colour, *not white*, and of an angular or irregular shape, not discoid. The container must be of a distinctive, angular shape having irregular or roughened sides or edges. Of course, it must carry a red printed label bearing the word "Poison."

LIVER AND STOMACH ANTI-ANÆMIA PREPARATIONS.—The Pharmacopœia will recognise a dry Liver Extract, a Liquid Extract for oral administration and a Purified Solution of Liver for parenteral use. Dried stomach is also recognised among the Anti-Anæmia products. The new Anti-Anæmia Board is developing standards for these products.

SOLUTION OF MAGNESIUM CITRATE.—The study of this solution has probably been more extensive than that of any other official product. With the exception of a reduction of the citric acid from 35 gm. per bottle to 33 gm., the formula remains the same as in the U.S.P. X. Careful experiments would seem to indicate that to prevent precipitation in this solution there must be present some free citric acid. The permissible variability in the magnesium oxide equivalent of the magnesium carbonate used becomes an important factor in stability. . . . If the retail pharmacist will obtain a statement of the oxide value of the magnesium carbonate which he buys, the new U.S.P. text will indicate to him the manner of making this adjustment with an advantage in stability. Permission is also given to carbonate the solution with CO_2 , but the potassium or sodium bicarbonate must also be added to insure the presence of this relatively large medicinal dose of potassium or sodium citrate.

IPECACUANHA.—The increase in the minimum alkaloidal requirement from 1.75 per cent. to 2 per cent. seemed justified by the Government records at the ports of entry.

FOWLER'S SOLUTION.—This solution has been rendered practically neutral and is to be free from colour. This change was voted by the Committee after a consideration of the many factors involved. The alkalinity of the former solution caused many incompatibilities, and the addition of colour was originally to produce an imitation of an old proprietary product.

SOLUTION OF SODIUM HYPOCHLORITE.—This 4 to 6 per cent. solution replaced chlorinated lime. . . . It will be diluted to make Dakin's solution and its strength adjusted by assay.

PILOCARPINE NITRATE has been retained, as it meets every medicinal need and the deleted hydrochloride was far less stable.

QUININE SULFATE.—The U.S.P. salt contains only 2 H_2O and is practically stable. The former Quinine Sulfate, containing when freshly made from 7 to 8 H_2O , quickly dries to a content of about 2 H_2O , and then is permanent. The U.S.P. XI salt contains about 10 per cent. more quinine than the fresh U.S.P. X salt and will be slightly more costly, but the subcommittee decided it was unwise to reduce the dose.

SODIUM PHOSPHATE.—The U.S.P. XI has made official a salt containing 7 H_2O instead of the former 12 H_2O Sodium Phosphate. This form has been found to be a relatively stable product with reference to its water of hydration. The 12 H_2O salt of the U.S.P. X quickly effloresced on exposure to air, and the Exsiccated Sodium Phosphate rapidly absorbs moisture. . . .

SAPO DURUS.—The synonym "olive oil castille soap" has been omitted and all reference to olive oil eliminated, since there was no known method whereby compliance with this specification could be proved. Rigid tests are introduced, however, to insure a soap of the quality needed for the preparation of Soap Liniment (now Camphor and Soap Liniment), since this product was admitted exclusively as a pharmaceutical necessity to insure a soap which would not solidify in alcoholic solution and which would have the necessary qualities for a liniment. The new name "Hard Soap" is in harmony with the nomenclature long used for the other official soap—"Soft Soap."

SAPON MOLLIS.—The formula of the U.S.P. X has been retained. In this linseed oil is specified. A note has been added authorising the replacement of the mixed sodium and potassium hydroxides by potassium hydroxide if preferred. It was proposed that in the formulas for this soap and also for Compound Solution of Cresol (now Saponated Solution of Cresol) permission be given to use "any vegetable oil." This change has, however, been deferred, awaiting the result of extensive researches already planned.

GLYCERIN SUPPOSITORIES.—These suppositories are now made by dissolving sodium stearate in glycerin and adding a specified quantity of water just before moulding. The new formula enables the practising pharmacist readily to make these suppositories, but the directions must be followed to insure the presence of a small amount of water.

ANTISEPTIC IODINE SOLUTION.—Under the official title of "Mild Tincture of Iodine" a solution has been made official which contains 2 gm. of iodine and 2.3 gm. of sodium iodide in sufficient diluted alcohol to make 100 c.c. Sodium iodide has replaced the potassium iodide of the original formula since the sodium salt is believed to be less irritating to the tissues. This solution has proved quite stable, bactericidally efficient (phenol coefficient 4.7), and has the important qualities of minimised pain and lack of irritation when applied to a wound. Its hydro-alcoholic content is such that drying is quite satisfactory, although its decreased alcoholic strength over that of the present tincture of iodine is such as to prevent rapid protein coagulation.

TRYPARSAMIDE.—This important arsenical is admitted to the U.S.P. under the trade-marked title with the approval of the owners, the Rockefeller Institute of Medical Research. The concurrent expiration of the patents makes possible full official recognition.

OINTMENTS.—There have been many changes in ointment formulas. Benzoinated lard, as an ointment vehicle, is valuable in extemporaneous prescriptions but is unsuited for ointments which may be stored over long periods of time and in varying climates. It has therefore been replaced in all U.S.P. formulas. When absorption is needed, a fatty vehicle of the

general formula wool fat 5 parts, yellow wax 5 parts and petrolatum 70 parts has been adopted. The exact proportions of these, and whether white or yellow wax or petrolatum is used, depends upon the particular ointment. This mixture is similar to the modern type of ointment base containing cholesterol and iso-cholesterol from wool fat combined with petrolatum. It is capable of suspending large proportions of water.

The new U.S.P. Ointment of Rose Water, while not adapted for long storage, is an ointment vehicle of great value and is largely used in the dermatologic department of some hospitals. It can be preserved without deterioration for many months if stored as directed in the Pharmacopœia for the last ten years, namely in pure tin, collapsible tubes. . . . In the new formula, distilled water replaces most of the rose water, a small amount of the latter being retained so as to continue the title by which it is largely known by physicians. The addition of oil of rose adds to its value as a vehicle in ointments to be applied to the face or hands.

The U.S.P. XI formula for Boric Acid Ointment directs a white ointment. The use of yellow wax in the U.S.P. X ointment was believed to increase its pharmaceutical perfection, but many physicians insisted upon the U.S.P. IX formula, which was white in colour, and the Committee has recognised this preference.

In the two Mercurial Ointments white wax and white petrolatum are directed that the characteristic "blue" colour might be maintained. The yellow varieties materially changed the colour of the finished ointments.

GINGER.—The Pharmacopœia has restricted the official Ginger to the Jamaica variety. It is difficult to establish standards for several varieties under the same title, especially when the proportion of their constituents varies so greatly as in the case of gingers.

A new feature of the U.S.P. XI is the adoption of colour standards to be used as a basis of comparison in a number of chemical tests, especially in determining the percentage of carbonisable impurities in chemicals. These colour standards are those developed by Professors Army and Taub.

International Biological Standards

A "FULL HOUSE" received such full measure from the lecturer at the Pharmaceutical Society's second London evening meeting of the present session at 17 Bloomsbury Square, W.C.1, on December 10, that subsequent discussion was omitted. The meeting was opened promptly at 8.30 by the president (Mr. E. Saville Peck), and it was not until 9.50 that the migration to the examination hall for light refreshments took place. With the president at the table was Mr. F. W. Adams (assistant secretary of the Pharmaceutical Society), while among the audience were Mr. H. Berry, Mr. and Mrs. C. E. Corfield, Dr. Katherine Coward, Mr. Harold Deane (chairman of the British Pharmaceutical Conference), Dr. C. H. Hampshire, Dr. W. H. Linnell, Mr. A. R. Melhuish, Mr. C. A. Noble, Mr. and Mrs. Herbert Skinner, Dr. Underhill, Mr. T. E. Wallis and Dr. J. Stanley White.

THE PRESIDENT, before introducing the speaker, claimed that the evening's meeting represented one of a series unbroken since the commencement. The Society's Pharmacological Laboratories afforded evidence, he said, that the subject for the evening was one of which the leaders of pharmacy had early recognised the importance, since they had preceded inclusion of biological standards in the British Pharmacopœia. He then introduced Mr. Percival Hartley, M.C., D.Sc., Director of the Department of Biological Standards in the National Institute for Medical Research at Hampstead, who, after a word of praise for the initiative of the Pharmaceutical Society, delivered his lecture on

not adequately be tested by chemical means. The first to be adopted for international use was that for diphtheria antitoxin. During the war the standard for this substance became inaccessible, and it was important to discover whether the different units which had been brought into temporary use during the war had the same value as that originally established by Ehrlich. An investigation carried out under the direction of Dr. Th. Madsen, Director of the State Serum Institute, Copenhagen, showed that the value of the unit established by Ehrlich had been maintained, and was, indeed, in common use in many countries; it was accordingly accepted for international use in 1922. In the following year the meeting of the International Physiological Congress at Edinburgh provided the opportunity for discussing the question of establishing international standards and units for substances other than antitoxins, such as insulin, pituitary extract and the heart drugs. To deal with the many problems relating to the standardisation of these and similar substances, the Permanent Commission on Biological Standardisation was formally constituted by the Health Organisation of the League of Nations in 1924, under the chairmanship of Dr. Madsen. Since its formation experts from Belgium, Denmark, France, Germany, Great Britain, and the United States of America have been represented. During the present year the representation has been widened by the addition of experts from Argentina, Austria, China, Holland, Italy, Poland, Roumania and Russia.

NEED OF STANDARDS

It is natural to inquire as to the reason for the creation of standards for this small group of medicaments and the reason for their being accorded international status and recognition. The answer is supplied by a consideration of some of their special properties. They are all specific remedies, the great majority of which have been introduced into medicine in comparatively recent times; some of them are potentially

International Biological Standards for Drugs and Therapeutic Substances

[ABSTRACT]

At the present time International Biological Standards have been established, and are available for use throughout the world, for twenty-seven substances, the potency of which can-

dangerous and, in many cases, for their safe and effective use they must be administered by precise dosage. Since they cannot be assayed by chemical means, other methods have had to be adopted based upon other properties. In the devising of these methods advantage is taken of the fact that each of the substances exhibits specific biological properties; thus insulin administered to animals causes a reduction in the concentration of the blood sugar; old tuberculin produces a typical and specific action when injected into tuberculous animals; administration of the vitamins to suitably prepared animals will restore growth, cure scurvy, rickets and other disease conditions. While these specific biological properties are made use of in biological assay procedures, it is to be emphasised that it is not possible to determine the potency of any of these substances by simple observation of the effects produced in an animal or a small group of animals.

Nor is it possible to define a unit of activity in this way, i.e., simply in terms of an animal reaction. Experience has shown that it is possible to find out how much of a preparation, the potency of which is unknown, will produce the same biological effect as a definite quantity of another preparation the potency of which is known, provided the tests are carried out under strictly comparable conditions. Thus, if a sufficiently large quantity of a particular preparation of a substance is set aside and regarded as the standard preparation, quantities of it can be supplied to all laboratories engaged in the assay of that substance. From the establishment of a standard to the definition of a unit is but a step: the unit of activity is properly defined in terms of the standard preparation, and may be stated, in general terms, as the specific biological activity contained in a certain weight of the standard.

The main objects of the Commission are to seek and secure international agreement in regard to biological standards and units, to make provision for these standards, to arrange for their supply and distribution, and to secure their adoption and effective application by research workers, laboratories and institutions in all countries. Clinical and laboratory investigations carried out in different laboratories and different countries can then be placed on a quantitative basis and the results correlated and compared.

On several occasions the Commission has recommended the adoption of provisional standards and units which have then been submitted for trial and criticism, and either confirmed or modified later in accordance with the experience gained. The Commission has therefore to keep in touch with research in this field and with the advance of knowledge. When the time appears to be appropriate the Commission calls the recognised experts into conference or consultation; these experts consider such questions as what constitutes a suitable standard, whether it can be obtained in amounts adequate for use as an International Standard, the definition of a unit, whether methods of assay are available and the order of the accuracy of their application, whether other national or local standards are in existence or proposed, and whether these are scientifically well founded. If further information is required, the necessary investigations are planned and carried out, usually by the experts themselves working in collaboration, the proposed standard and unit are subjected to criticism and, finally, the experts submit the results of their work in the form of a Report to the Commission. Thus, by international co-operation, agreement is reached and the recommendations are submitted to the Health Committee of the League of Nations.

MAINTENANCE OF STANDARDS

The responsibility for the final preparation and dispensing of the standards and for their care, storage and distribution to workers throughout the world has been placed, by the League Health Organisation, on the State Serum Institute, Copenhagen, in respect of the standards for serums and bacteriological products, and on the National Institute for Medical Research, Hampstead, in respect of the remaining biological standards. Many of the standards have been prepared at one or other of these two institutes. A few of the standards have been supplied by establishments engaged in the large-scale production of the substances for which the standard is required. (Samples of the International Biological Standards were exhibited. Each was in the actual form in which it is dispensed and ready for use in the laboratory.) The standards for vitamin A and vitamin D are provided in the form of standard solutions in oil; those for insulin, pituitary (posterior lobe) extract, digitalis, ouabain, the arsphenamines, vitamin B,

vitamin C, and the sex hormone standards as dry solids in sealed tubes or ampoules.

Short memoranda relating to each of the standards have been prepared at the Institutes at Copenhagen and Hampstead. These give an account of the history, nature and preparation of the standard, suggestions for its proper care and storage, and for its use in comparative tests. The Commission takes the view that, while standards and units should be fixed and stable, and determinations of potency should always be carried out in strict comparison with the standard preparation (or its exact equivalent) and expressed in international units, no attempt should be made to fix or impose any particular method by which these comparative tests should be carried out.

INTERNATIONAL ACCEPTANCE

The increase in the number of standards adopted and the increase in the number of laboratories making use of the standards has been very rapid, and the methods for their distribution and supply on an international basis have had to be modified and adjusted to meet the situation thus created. National distributing centres were nominated by the Health Organisation in twenty-three countries, and, after ascertaining the requirements of each country, adequate supplies of each of the vitamin standards were sent to the national distributing centres for local distribution in their respective countries. (A chart was exhibited showing how the system had succeeded at the first large distribution of the vitamin standards in 1932, and again in 1935, following the decisions of the Second International Conference on Vitamin Standardisation.) Exact information is lacking, but taking the estimates of the national distributing centres as to the local needs of their respective countries as a guide, the standard for vitamin A has been made available for 250 laboratories in twenty-nine countries, vitamin B to 220 laboratories in twenty-eight countries, vitamin C to 140 laboratories in twenty-three countries, and vitamin D to 265 laboratories in twenty-nine countries. The same system was adopted for the supply and distribution of the standard for the oestrus-producing hormone in 1932, with the result that this standard has been made available for use in 165 laboratories in twenty-six countries. (Maps and charts were exhibited to illustrate the extent to which countries have made use of twenty of the standards available up to September 1935.) An Inter-governmental Conference, convened by the Health Organisation, held at Geneva in October of this year, recommended that each country should have a national centre, or centres, recognised by the competent authority, to take charge of the international standards and equivalent national standards; and that every such centre should have a qualified staff to control the application of the international standards in its own country, and thus to serve as the recognised scientific authority in this field.

Vote of Thanks

THE PRESIDENT, having expressed the opinion that Dr. Hartley had probably dealt in advance with hearers' questions, called upon Mr. Skinner to propose a vote of thanks.

MR. SKINNER said that those engaged in public service were well aware of the confusion arising from a multitude of conflicting units. The efforts to bring about standardisation were a credit to the League of Nations. He expressed surprise at the number of distributing centres in certain small countries. The one at Hampstead was ample for this country. Pharmacists, who were, he considered, already better acquainted with the subject of biological standards than many physicians, would find the evening's lecture extremely useful.

DR. UNDERHILL, seconding, put the evening's only questions to the speaker. He had not previously realised, he said, the enormous amount of work entailed in the organisation of International Standards. He foresaw a busy time ahead for the Institute if every function ascribed to the posterior lobe of the pituitary body represented a different hormone and if every such hormone should require standardisation. Were tests against the standard conducted simultaneously and, if not, was any error traceable to the difference of time at which comparisons were made? What happened when foreign delegates, agreeing to adopt the international units, returned home and continued to make use of other standards?

DR. HARTLEY, in reply, declared that the first question covered too wide a field to be dealt with on that occasion; as to the second, it touched upon one of their greatest difficulties. Their only methods were persuasion, constant pressure to secure pharmacopœial standards in each country, and conferences to secure the interest of Governments.

Recent Advances in Treatment

A RECENT ISSUE of "The Practitioner" is devoted mainly to a series of signed articles, forming a symposium, on recent advances in the treatment of various ailments. In giving an outline of a few of the monographs, we may suggest that pharmacists, desiring to strengthen their knowledge of what is going on in present-day medicine, may find it of advantage to obtain and keep for reference a copy of this informative number (October 1935).

The Endocrine Glands

Professor E. C. Dodds contributes a ten-page article on recent advances in treatment associated with the endocrine glands. Under the subheading "Thyroid Gland" he calls attention to Harrington's new derivative of thyroxine, 3:5-di-iodo-thyronine which, by the way, we have not been able to find in the new volume of "The Extra Pharmacopœia"). Although not so powerful as thyroxine, it has the same action and possesses the advantages of greater solubility in water. Professor Dodds expresses the view that it merits a thorough clinical trial in reference to thyroxine. Work on the pituitary gland is making considerable progress; we are told that the following hormones "have been proved beyond all question to be produced by this gland":—(1) Gonadotropic hormone; (2) growth hormone; (3) thyrotropic hormone; (4) lactation hormone; (5) pancreaticotropic hormone; (6) adrenotropic hormone; (7) parathyrotropic hormone. It is added that the only ones of the set which are of immediate practical importance are (1) and (3). One of the greatest advances in modern medicine has been the establishment of accurate methods of diagnosing pregnancy. This has been accomplished through the work of Schheim and Zondek. During the past few years the whole question of the sex hormones has undergone a complete revolution, thanks to the labour of biologists and organic chemists. It is now possible to control completely the uterine cycle of menstruation in the human subject. Ending his article with a discussion of recent work on the suprarenal cortex, Professor Dodds points out that the chemical composition of the hormone generally known as cortin is at present unknown. It has been reported that while in general symptoms of Addison's disease may be relieved by means of this substance, the patient dies from an extension of the tuberculous process which originally destroyed the suprarenal glands. In the near future, he concludes, when the discovery of simpler methods of preparation and purification have made them available in greater quantities, hormones will be found to have an even wider range of application.

Gastro-Intestinal Disorders

Dr. A. H. Douthwaite discusses recent advances in the treatment of gastro-intestinal disorders. He remarks on the curious fact that the diagnosis of gastritis, "which was seldom, if ever, mentioned to students fifteen years ago, now holds pride of place in capturing the attention of the physician. With its resuscitation . . . has come a much clearer understanding of such diverse diseases as cancer of the stomach and pernicious or Addison's anaemia. Faber, who persistently thirty years ago championed chronic gastritis as a true morbid entity, was equally persistently ignored by the majority of the profession, and it is Hurst's energy and genius which have demonstrated its actuality and far-reaching importance." For some years past, reports of remarkable cures of duodenal ulceration as the result of injection treatment have reached this country. It appears that the subcutaneous injection of certain amino-acids, notably histidine, hastens the healing of peptic ulcers and obviates the need for the strict régime hitherto imposed. Dr. Douthwaite points out that experiments of which he has knowledge show that in some ulcer cases the injection of any inert substance is followed by the disappearance of symptomatic and radiographic evidence of disease. Indeed, "every physician knows that for years peptic ulcers tend to heal spontaneously whether treated or not." The introduction of combined hexamine and alkali administration marks a decided advance in treating the chronically inflamed gall-bladder. Theoretically, hexamine should possess no antiseptic action in an alkaline medium, but Knott has shown that in infected bile formaldehyde is liberated and may even result in sterilisation. The urine must be rendered and kept alkaline by the use of 30 gr.

or more of potassium citrate thrice daily before hexamine therapy (up to 80 gr. daily) is started: failing this precaution acute cystitis will arise. One more pronouncement in this monograph may be quoted. "A diet containing an adequacy of fruit and vegetables and free from excess of constipating substances, such as chocolate, pastry, cheese, tea and coffee does not need the addition of 'roughage.' It is possible to over-irritate the alimentary tract with bran, husks and other residues. In any case, to attempt to stimulate the intestines with 'roughage' and at the same time to render it bland by copious doses of paraffin is as illogical as the combined administration of caffeine and bromide."

Skin Diseases

Dr. John T. Ingram contributes a valuable paper on recent advances in the treatment of skin diseases. Among other important statements, Dr. Ingram suggests that the time has come when the treatment of skin sepsis should be removed from the domain of surgery and given to the physician. "Deep and crucial incisions, probings, scrapings, packings and squeezing of septic skin affections should be considered as criminal as the use of dirty instruments." In follicular infections the use of occlusive dressings shows that it is actually beneficial to shut in the pus rather than let it out. The indurated papule on the nape of the neck or the boil which is maturing, is ripe or even discharging, should be covered by an elastic plaster dressing which should be left in place for as long as is thought necessary to allow the lesion to heal. It is only intelligent to swab surrounding skin and hands with a mild antiseptic lotion, but this is as much interference as should be allowed the fingers, which are the chief cause of spreading and persistence of skin infections. For persistent boils localised to one area there is no more valuable measure than x-ray therapy, and this is, in Dr. Ingram's view, the only proper treatment for carbuncles. This does not mean that such well-tried accessory measures as radiant heat, carbolic in glycerin compresses (1 in 8) or perchloride fomentations (applied for ten minutes), repeatedly replaced over a period of 1-1½ hours should be discarded. Treatment along these lines is applicable to subcutaneous abscesses, whitlows and perionychia, where surgery should be limited to the incising of a bag of pus. Few advances in treatment have been more welcome than that in gravitational diseases of the legs, affecting the poor patients comprising the burdensome leg clinics of hospitals in days gone by. It is largely through the work of Dickson Wright that the technique of elastic plaster bandage therapy for these conditions has been evolved; no such ready and effective therapy has previously been introduced. The author gives detailed directions for applying such bandages. Near the end of his article he refers favourably to the treatment of psoriasis and lichen planus by ultra-violet light.

Other Advances

Mention must be made, however, of a few other monographs of general interest. Dr. R. Scott Stevenson writes on advances in oto-laryngology. He remarks that in the leading medical journals of the world last year, 284 articles were devoted to some aspect of the tonsils. In chronic middle-ear suppuration a conservative method that has recently gained favour is the insufflation of a powder consisting of from 0.75 to 2 per cent. iodine in boric acid. It appears from this article that an American proprietary preparation on these lines was introduced about the year 1917, but its formula was not made public till 1930. The powder is prepared, according to the original directions, by adding an alcoholic solution of iodine to an alcoholic solution of boric acid and using the solid residue after evaporation. The author of this contribution finds that an equally effective method is to rub down the percentage of iodine with a few drops of alcohol and add the powdered boric acid gradually. In another article Dr. James Mennell discusses, under the heading "Advances in Physical Treatment," massage, the treatment of fractures, electrical methods and heat with the lucidity which may be expected from so successful an exponent of manipulative surgery. Other topics dealt with in this excellent compendium include eye diseases, by Dr. H. B. Stallard; urology, by Dr. A. E. Roche; diabetes, by Dr. George Graham; kidney disease, by Dr. T. Izod Bennett; and new anæsthetic agents, by Dr. F. B. Parsons.

Christmas Holidays

WE understand that the following wholesale houses will close on the dates mentioned:—

From Tuesday, December 24, to Friday, December 27

Allen & Hanburys, Ltd., London, E.2.
 Allen, Stafford, & Sons, Ltd., London, E.C.2.
 Arnfield, J. C., & Sons, Ltd., Stockport.
 Ayrton, Saunders & Co., Ltd., Liverpool, 1. (Closing December 28-31 for stocktaking; urgent orders only executed. Open December 27.)
 Bayer Products, Ltd., London, W.C.2.
 Bell, John, Hills & Lucas, Ltd., London, S.E.1.
 Blackie, Robert, London, S.E.1. (Closing 1 p.m., December 24.)
 Bourjois, Ltd., Croydon. (Closing 12 noon, December 24.)
 British Drug Houses, Ltd., The, London, N.1.
 Britton, Malcolm & Waymark, Ltd., S.E.1. (Closing 12.30 p.m., December 27 and 28.)
 Brooks & Warburton, Ltd., London, S.W.1.
 Burgoyne, Burdidge & Co., Ltd., London, E.6.
 Burroughs Wellcome & Co., London, E.C.1.
 Ciba, Ltd., London, S.E.1. (Closing 1 p.m., December 24.)
 Coates & Cooper, Ltd., London, E.C.1.
 Crookes Laboratories, The (British Colloids, Ltd.), London, N.W.10. (Closing 12 noon, December 24.)
 Dearborn (1923), Ltd., London, W.C.1.
 Evans Sons Lescher & Webb, Ltd., Liverpool and London. (Closing noon January 1. Stocktaking December 27-31. Urgent orders only.)
 Ford, T. H., Ltd., London, E.C.1. (Opening December 27 and 28 for urgent orders only.)
 Glaxo Laboratories, London, N.W.1. (Skeleton staff, December 27 and 28.)
 Goodall, Backhouse & Co., Ltd., Leeds, 1.
 Hewlett, C. J. & Son, Ltd., London, E.C.2. (Also December 27-31 for stocktaking; urgent orders only executed.)
 Hirst, Brooke & Hirst, Ltd., Leeds.
 Hoffmann-La Roche Chemical Works, Ltd., The, London, N.13.
 Homburg Pharma, Ltd., London, W.C.2.
 Horner, L. A., & Sons. (Closing 12 noon, December 24. Half staff December 27 and 28.)
 Howards & Sons, Ltd., Ilford. (Closing for stocktaking, December 30-31.)
 Johnson & Sons, Manufacturing Chemists, Ltd., London, N.W.4. (Closing 12 noon, December 24.)
 Lilly, Eli, & Co., Ltd., London, W.1.
 Lofthouse & Saltner, Ltd., Hull.
 Macfarlan, J. F., & Co., London, E.1. (Closing 1 p.m., December 24. Also January 1.)
 Matthews & Wilson (1931), Ltd., London, E.C.1.
 Maw, S., Son & Sons, Ltd., London, E.C.1. (Stocktaking December 30 and 31; urgent orders only.)
 Mawdsley, D., & Co., Manchester.
 May, Roberts & Co., Ltd., London, E.C.1.
 Meggeson & Co., Ltd., London, S.E.16. (Closing 1 p.m., December 24.)
 Mornay, Ltd., London, W.1.
 Morson, T., & Son, Ltd., London, W.C.1. (Offices open half-day, December 27. Works closed for stocktaking, December 27 and 28.)
 Napp, H. R., Ltd., London, W.C.2.
 National Drug Industries, Ltd. (Closing 1 p.m., December 24.)
 Paines & Byrne, Ltd., Greenford, Middlesex. (Opening December 27 and 28 for urgent orders only.)
 Parke, Davis & Co., London, W.1. (Opening December 27 for urgent orders only.)
 Potter & Clarke, Ltd., London, E.1. (Opening December 27 and 28 for urgent orders.)
 Ransom, W., & Son, Ltd., Hitchin. (Noon, December 24.)
 Sangers, Ltd., London, N.W.1. (Closing 3.30 p.m., December 24.)
 Smith, T. & H., London, E.C.2. (Closing 1 p.m., December 24. Also January 1.)
 Thompson & Capper, Wholesale, Ltd., Liverpool. (Closing 1 p.m., January 1.)
 Tompkins, James, Ltd., London, E.C.1. (Closing 12 noon, December 24.)
 Tooseood, William, Ltd., London, S.E.1.
 Willows, Francis, Butler & Thompson, Ltd., London, E.8.
 Woolley, James, Sons & Co., Ltd., Manchester, 3.

From Tuesday, December 24, to Saturday, December 28

Burge, Warren & Ridgley, Ltd., London, E.C.1.
 Reuter, R. J., Co., Ltd., Slough. (Skeleton staff, December 28, for urgent orders only.)
 Schering, Ltd., London, W.C.1. (Opening until 12 noon, December 27.)
 Smith & Sons (Norwich), Ltd., Norwich. (Urgent orders only, December 28.)

From Tuesday, December 24, to Monday, December 30

Berton, Arthur, Ltd., London, E.C.1.
 Continental Laboratories, Ltd., London, S.W.1. (Opening until 12 noon, December 27, for urgent orders only.)
 Davenport, J. T., Ltd., London, S.E.1.
 Eno, J. C., Ltd., London, W.1.
 Fromm, Herbert, London, W.C.2. (Closing 12 noon, December 24.)
 Hopkin & Williams, Ltd., London, E.C.1.
 Mallagh & Co., London, S.E.1.
 Oppenheimer, Son & Co., Ltd., London, S.W.9.
 Piesse & Lubin, Ltd., Manchester, 7. (Closing January 1.)
 Sparks, White & Co., Ltd., London, E.1.
 Stevenson, H. E., & Co., Ltd., London, E.C.4.
 Thermogene Co., Ltd., London, W.1.
 Tyrer, T., & Co., Ltd., London, E.15.
 Viscose Development Co., Ltd., Kent.
 Winchester Manufacturing Co., Ltd., Isleworth.

General Medical Council

(Continued from the C. & D., December 7, p. 672)

DISCIPLINARY CASES

After a hearing (lasting from November 26 to November 29) of a complaint against Dr. Aldo Castellani, 23 Harley Street, W.1, who was accused of misconduct with a woman patient, the Council found that the charge was not proved; the complaint was accordingly dismissed.

Of six other cases dealt with on November 29, three ended with the retention of the respondents' names on the Register. The practitioners concerned were Mrs. Dorothy Miller, M.B., Ch.B., West Vancouver, Canada (a charge of adultery); Mr. George Francis Maher, Gould's Cross, co. Tipperary (motoring offences); Mr. Robert Valentine Hirsch, 70 Westbourne Terrace, W.2 (irregularities in prescribing "dangerous" drugs). In the other cases the respondents were allowed stated periods for the production of satisfactory testimony—Mr. Florence Joseph O'Driscoll, M.B., B.Ch., Ramsey, Isle of Man (convictions for drunkenness); Mr. John McCarren, Brookvale, Cavan (convictions for drunkenness); Mr. Robert Louis Portway, 34 Borough High Street, S.E.1 (motoring offences).

PHARMACOPOEIA COMMITTEE

The report of the Pharmacopoeia Committee stated that the number of copies of the British Pharmacopoeia, 1932, sold to date was 39,289. The fifth report of the British Pharmacopoeia Commission, 1933-36, included in Committee's report, stated that the Vitamin Committee have now finished their work for the Addendum. Various sections of the description of the assay processes which required investigation or inquiry have been completed, and monographs on the following substances are now ready: Ascorbic Acid, Calciferol, Solution of Calciferol, Cod-liver Oil, Adsorbate of Vitamin B₁. It is proposed that Solution of Calciferol shall replace the Solution of Irradiated Ergosterol of the British Pharmacopoeia, 1932. A subcommittee has been appointed, under the chairmanship of Dr. Hartley, to investigate and report upon all the biological assays of the British Pharmacopoeia, and of the draft Addendum, in relation to the accuracy attainable and the permissible deviations from the stated standards. The doses of the British Pharmacopoeia, 1932, have been reviewed. At an early stage of their work on the Addendum the Commission invited the Committees on Pharmacopoeia Revision in India and the Dominions to send comments on the British Pharmacopoeia, 1932, and suggestions for new drugs which were deemed suitable for official recognition. The comments and suggestions received have been carefully considered. Active co-operation with the United States Pharmacopoeia Committee of Revision has continued (see p. 709).

The Commission have received, from the Laboratory, reports on a large number of subjects in connection with the preparation of the Addendum and the new Pharmacopoeia. They desire to record their satisfaction with the work that is being done, and their appreciation of the assistance afforded by these reports. The Committee recommended that the price of the Addendum should be fixed at 5s. a copy. They further recommended that the Council should take steps to appoint a Selection Committee to nominate persons for appointment as members of the Pharmacopoeia Commission.

Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values

28 Essex Street, W.C.2, December 12

Pharmaceutical Chemicals, etc.

BUSINESS has certainly slackened off a little, but for the time of year the demand is fairly satisfactory. The general level of prices is keeping up quite steadily, and many commodities are distinctly firm, with values tending to improve. A strong feature of a number of the markets dealing in natural products is the acute shortage of supplies on spot with but negligible shipment offers being made from the sources. The PHARMACEUTICAL CHEMICALS markets are receiving a normal amount of inquiry, and with a few exceptions values are steady and unchanged. Home makers' prices for their leading products, such as IODIDES, BROMIDES, MERCURIALS and BISMUTH SALTS are fully steady. This week prices for ex ajowan seed THYMOL have been advanced to conform to last week's increase in the synthetic material.

Crude Drugs

Rather quieter markets are indicated, but business has been by no means small. Cape and Curaçao ALOES keep firm on short supply. The better inquiry for BARBASCO ROOT and DERRIS ROOT continues and spot supplies are not heavy. Spot values for BUCHU are high and firmly maintained. CASCARA SAGRADA is being inquired for, and the limited stocks are held for good prices, spot and forward. Although there is no decided break in ERGOT values the market is not so strong and buyers are waiting for less stringent terms. SUDAN GUM ACACIA is moving to lower figures with the approach of new crop. Sales of MATTO GROSSO IPECACUANHA have practically cleared spot stocks; forward prices now quoted are dearer. MENTHOL has been dull all the week and values are again slightly easier. Good inquiry continues for RHUBARB, but there are only a few odd cases of SHENSI left and still no shipment offers from the source. SAFFRON is well held at recent sharp advances. The SEEDS markets have been quiet. Fair inquiry for Tinnevely SENNA, and the manufacturing grades of Alexandrian pods show signs of some improvement in value. TRAGACANTH is quoted steadily at recent advances, but the demand has been quieter. WAXES are steady but slow.

Essential Oils

These markets are all fairly steady, and some few lines are meeting with good inquiry. The general tone is steady, but competition continues keen. There are still no shipment offers of ANISE (STAR). The demand for BERGAMOT and the other Sicilian oils has been very moderate this week, but holders' quoted prices show no signs of breaking. CANANGA is easier and unsteady. RUSSIAN CARAWAY is offering at keen prices. Reports from the source indicate shippers of FRENCH LAVENDER are prepared to discount their former prices, but business is still slow and of small importance. SINGAPORE PATCHOULI is the strong feature of these markets; prices are again dearer, and there is plenty of inquiry for home and export, but it is difficult to locate supplies; nothing offering for shipment from the source. JAPANESE PEPPERMINT has again been dull except for a limited spot demand; forward prices are slightly easier. PETITGRAIN tends a little cheaper with the removal of the import duty, but spot stocks appear to be restricted.

Exchange Rates on London

The following is a list of the chief Continental and other exchange rates at the opening on Thursday morning:—

Centre	Quoted	Par	December 12	Value of the £
Amsterdam ...	Fl. to £	12·107	7·27½	12/0½
Berlin ...	Mks. to £	20·43	12·24½	11/11½
Brussels ...	Belgas to £	nominal	29·24½	16/9
Copenhagen ...	Kr. to £	18·159	22·40	24/8
Lisbon ...	Esc. to £	110	109½	19/11½
Madrid ...	Ptas. to £	25·22½	36	28/5
Milan ...	Lire to £	nominal	nominal	nominal
Montreal ...	Dol. to £	4·86½	4·98	20/5½
New York ...	Dol. to £	nominal	4·92½	20/3
Oslo ...	Kr. to £	18·159	19·90½	21/11
Paris ...	Fr. to £	124·21	74½	12/0½
Prague ...	Kr. to £	164·25	119	12/0½
Stockholm ...	Kr. to £	18·159	19·39½	21/4
Warsaw ...	Zloty to £	43·38	26½	12/0
Zurich ...	Fr. to £	25·2115	15·20	12/0½

Bank rate 2 per cent.

BUSINESS has been rather quiet this week, and the markets generally, although steady, are slackening down as the end of the year approaches. The advances recorded last week are all steadily maintained, and this week the adjustment of ex ajowan seed thymol to higher figures is notified.

AMIDOPYRINE.—Market is rather quiet; some spot offers at keen figures: crystals, five cwt., 18s. 0½d.; two cwt., 18s. 5½d.; less than two cwt., 18s. 10½d. per lb., with powder 2½d. per lb. extra.

AMMONIUM BENZOATE.—Spot prices range from about 3s. 4½d. to 3s. 6d. per lb., as to quantity. Business quiet.

ASPIRIN.—Makers' scale of prices maintained: home trade, ten cwt., 2s. 7d.; five cwt., 2s. 8d.; one cwt., 2s. 8½d.; 28 lb., 2s. 9d.; 14 lb., 2s. 10d.; 7 lb., 3s.; 4 lb., 3s. 2d.; 1 lb., 3s. 4d. per lb. Bulk packing free, net, carriage paid. Contracts: Over twelve months, minimum, one ton; over six months, less than one ton.

BARBITONE.—Business small, with some price-cutting noted: spot, one cwt., 15s. 3½d.; 56 lb., 15s. 8d.; small parcels, up to 16s. 2d. per lb.

BENZONAPHTHOL.—Dealers are quoting spot at about 3s. 2d. to 3s. 3d. per lb., as to quantity. Occasional business.

BISMUTH SALTS.—Makers' prices continue very steady, business on a good scale: Carbonate, not less than one cwt., 6s. 6d.; 28 lb., 6s. 9d.; 8 lb., 7s. 3d.; less than 8 lb., 8s. 6d. per lb.

BORIC ACID (B.P.).—Makers' prices continue at the advance recorded last week. Crystals, £36; powder, £37 per ton, delivered.

BROMIDES.—Fair demand continues, market fully steady: ammonium, not less than five cwt., 1s. 9d.; one cwt., 1s. 10d.; small quantities, 2s. 5d. per lb.; potassium, B.P. crystals, and granular, not less than 5 cwt., 1s. 6d.; one cwt., 1s. 7d.; 28 lb., 1s. 10d.; smaller quantities, 2s. 2d. per lb.; sodium, B.P., not less than five cwt., 1s. 8d.; one cwt., 1s. 9d.; 28 lb., 2s.; smaller quantities, 2s. 4d. per lb., net, without engagement. Special prices for larger quantities.

BUTYL CHLORAL HYDRATE.—Quoted prices unchanged; market steady: spot, 14 lb., 8s.; 7 lb., 8s. 3d.; 1 lb., 8s. 6d. per lb., in 1-lb. bottles.

CAFFEINE.—Continental makers' agreed prices; pure alkaloid, two cwt., 7s. 10d.; one cwt., 8s.; 56 lb., 8s. 2d.; smaller quantities, 8s. 4d. per lb., delivered, 5-lb. tins free, smaller packing extra. Citrate, two cwt., 5s. 5½d.; one cwt., 5s. 6½d.; 56 lb., 5s. 7½d.; smaller quantities, 5s. 8½d. per lb., delivered. British material: pure, 56 lb., 8s. 4d.; less, 8s. 6d. per lb. Citrate, 56 lb., 5s. 9d.; less, 6s. per lb.

CALCIUM LACTATE.—Average business, with quotations competitive: spot, one cwt., 1s. 0½d.; 56 lb., 1s. 1½d.; 28 lb., 1s. 2½d. smaller quantities, up to 1s. 6d. per lb.

CARBOLIC ACID (B.P. CRYSTALS).—The scale of prices is as follows: Twenty tons, 7d.; ten tons, 7½d.; one ton, 7½d.; less than one ton, 7½d. per lb., in drums, carriage paid. Wholesale distributors' prices for small parcels will be dearer.

CITRIC ACID (B.P. CRYSTALS).—Market continues firm: British material quoted at 1s. per lb., less 5 per cent. discount, nominal and without engagement. Dealers' prices for imported material are competitive.

CREAM OF TARTAR.—Fair business, market steady: British material, 99 to 100 per cent., 79s. per cwt., less 2½ per cent. discount. Dealers' prices for foreign material competitive.

GUAIACOL CARBONATE.—Market is dull; values are steadier: spot, two cwt., 10s. 11d.; one cwt., 11s. 1½d.; less than one cwt., from 11s. 3½d. to 11s. 9d. per lb. This product will become liable to key industry duty on January 1, 1936.

GUAIACOL (CRYSTALS).—Prices unchanged for Continental material, 28-lb. jars, 10s. 0½d.; 14-lb. jars, 10s. 2½d.; 1-lb. bottles, 10s. 8½d. per lb., ex store. Liquid: 28-lb. demijohns, 9s. 6½d.; 14-lb. demijohns, 9s. 9½d.; 1-lb. bottles, 10s. 0½d. per lb., ex warehouse.

HEXAMINE.—Makers' prices for bulk quantities are competitive: fair business: B.P. powder, from 1s. 3½d. to 1s. 4½d. free-running crystals, from 1s. 7d. to 1s. 8½d. per lb., carriage paid, for bulk lots. Dealers quoting free-running crystals, two cwt., 1s. 7½d.; one cwt., 1s. 8d.; 14 lb., 1s. 10d.; smaller parcels, up to 2s. per lb., carriage paid.

IODIDES.—Prices are well maintained and supplies are well taken up: Potassium Iodide, B.P., one cwt., 5s.; 28 lb., 5s. 2d.; 14 lb., 5s. 4d.; 7 lb., 5s. 8d.; 4 lb., 6s. 2d.; smaller quantities, 6s. 8d. per lb.

IRON QUININE CITRATE.—Makers' prices are as follows: not less than 100 oz.: 10½d. in 100-oz. tins; 10½d. in 25-oz. tins; 11d. in 16-oz. bottles; 11½d. in 4-oz. and 8-oz. bottles; 1s. 0½d. in 1-oz. bottles; less than 100 oz. lots, from 11d. to 1s. 4d. per oz., according to packing and quantity.

LITHIUM CARBONATE.—Makers' prices continue steady at recent advances: two cwt., 6s. 9d.; one cwt., 7s.; 56 lb., 7s. 2d.; 28 lb., 7s. 4d.; 14 lb., 7s. 6d. per lb.

LACTIC ACID (B.P.).—Limited inquiry, with quotations unchanged: quantities in carboys, 1s. 4½d. to 1s. 5d.; in winchesters and bottles, 1s. 6d. to 1s. 9d. per lb., as to quantity.

MERCURIALS.—Market is very firm and, in view of recent sharp advances in metal values, an increase in prices for the salts may have to be made: Chloride, B.P., not less than one cwt., 4s. 11d.; smaller quantities, from 5s. per lb. upwards.

METHYL SALICYLATE.—Market is steady, fair business: spot, ten cwt., 1s. 5d.; five cwt., 1s. 5½d.; one cwt., 1s. 6d.; less than one cwt., 1s. 7d.; small quantities, in bottles, up to 2s. per lb.

METHYL SULPHONAL.—Dealers are finding competition on spot keen: two cwt., 19s. 3½d.; one cwt., 19s. 9½d.; 56 lb., 20s. 2½d.; small parcels, 20s. 8d. per lb.

PARALDEHYDE.—Market is steady but rather quiet: 1 w-quart, 1s. 9d.; 6 w-quarts, 1s. 7½d.; 12 w-quarts, 1s. 5½d.; 36 w-quarts, 1s. 4½d. per lb., carriage paid on minimum 6 w-quarts; one demi-john, 1s. 2d. per lb., carriage paid.

PHENACETIN.—Very competitive, with business unimportant: crystals or powder, bulk quantities, 2s. 7d. to 2s. 8d.; smaller parcels, 2s. 8½d. to 3s. per lb.

PHENAZONE.—Business continues difficult, with competition very keen: crystals, five cwt., 8s. 9½d.; two cwt., 9s. 0½d. and less, 9s. 3d. per lb., with powder 2½d. per lb. extra.

PHENOLPHTHALEIN.—Quotations are being shaded in some quarters: two cwt., 2s. 9d.; one cwt., 2s. 10d.; 28 lb., 3s.; 14 lb., 3s. 1d.; 7 lb., 3s. 2d.; smaller parcels, up to 3s. 6d. per lb.

PHENYL ETHYL BARBITURIC ACID.—Occasional spot business at keen prices. Quoted from about 25s. 4½d. to 27s. per lb., in 2-lb. bottles, as to quantity.

POTASSIUM SULPHOGUAIACOLATE.—Demand is quiet on spot, keen prices quoted. Spot, 6s. 3d. to 6s. 4½d. per lb., as to quantity.

QUININE SALTS.—Conventional scales of prices continue steady; business about normal: sulphate, 2s. 1d.; bisulphate, 2s. 1d.; ethyl carbonate, 2s. 8½d.; salicylate, 2s. 9½d.; hydrochlor., 2s. 7½d.; bihydrochloride, 2s. 10½d.; hydrobromide, 2s. 7½d.; bihydrobromide, 2s. 10½d.; valerianate, 3s. 7d.; hypophosphite, 3s. 10½d.; alkaloid, 2s. 11d. per oz., carriage paid on bulk quantities; 100-oz. tins free; smaller packing extra.

SODIUM SALICYLATE (B.P.).—Steady seasonal business, quoted unchanged: home trade, crystals or powder, five cwt., 1s. 8½d.; one cwt., 1s. 9d.; 28 lb., 2s.; 14 lb., 2s. 2d.; 7 lb., 2s. 3d.; 1 lb., 2s. 6d. per lb.

STRYCHNINE SALTS.—Makers' prices are steady:—

	Under 16 ozs.	16 ozs.	35 ozs.
	Per oz. s. d.	Per oz. s. d.	Per oz. s. d.
Alkaloid cryst.	2 8½	2 7	2 6½
Alkaloid powder	2 7½	2 6	2 5½
Bisulphate	2 2½	2 1	2 0½
Hydrochloride	2 5½	2 4	2 3½
Nitrate	2 3½	2 2	2 1½
Sulphate cryst.	2 4½	2 3	2 2½

25-oz. containers, free; 1-oz. bottles, 2½d.; 2-oz. bottles, 3½d. Other conditions as usual. Lower prices for bulk quantities. Wholesale distributors' prices for small quantities would be dearer.

SULPHONAL.—Market is rather dull, quoted unchanged: crystals or powder, two cwt., 15s. 5½d.; one cwt., 15s. 10½d.; 56 lb., 16s. 1d.; smaller parcels, up to 16s. 9d. per lb.

TARTARIC ACID (B.P. CRYSTALS).—Market continues steady: British makers quote at 1s. per lb., less 5 per cent. discount. Dealers offering foreign material at competitive prices.

THEOBROMINE.—Continental material: pure, two cwt., 7s. 10d.; one cwt., 8s.; 56 lb., 8s. 2d.; smaller quantities, 8s. 4d. per lb. Sodium salicylate, two cwt., 6s. 3½d.; one cwt., 6s. 4½d.; 56 lb., 6s. 5½d.; small quantities, 6s. 6½d. per lb., delivered, 5-lb. tins free, smaller packages extra.

THYMOL.—Makers' prices for the synthetic fine white continue at the advance recorded last week, as follows: two cwt., 5s. 10d.; one cwt., 6s.; 56 lb., 6s. 4d.; 28 lb., 6s. 9d.; less than 28 lb., 7s. 6d. per lb. The scale of prices for ex ajowan seed has been advanced as follows: one cwt., 8s. 7d.; 56 lb., 8s. 10d.; 28 lb., 9s. 4d.; 14 lb., 10s. 4d. per lb.

VANILLIN.—Steady business with prices well maintained: ex clove oil or guaiacol, five cwt., 13s. 3d.; one cwt., 13s. 6d.; 56 lb., 13s. 9d.; less, 14s. per lb.

Crude Drugs, etc.

AGAR.—The spot market has been quiet, quoted unchanged. New crop for shipment is freely offered: spot, Kobe No. 1, 3s. 6d.; No. 2, 3s. 2d.; Yokohama No. 1, 3s. 3d. per lb.; shipment, Kobe No. 1, January-February, 2s. 2d.; March-April, 2s. 1d.; No. 2, 2s.; Yokohama No. 1, 1s. 11d. per lb., c.i.f.

ALOES.—Limited supplies at high values continue here; business has been unimportant: Cape, spot, 52s. 6d. for prime, in boxes; shipment, boxes, 48s. 6d.; large cases, 50s. 6d. per cwt., c.i.f. Curaçao, spot, 105s. to 107s. 6d.; shipment, December-January, 102s. 6d. per cwt., c.i.f.

ANTIMONY.—Chinese crude is quoted at £33 10s., c.i.f. English regulus, £76 to £77, spot.

BALSAMS.—Business has been quiet on spot: *Tolu*, 1s. 5d. to 1s. 6d.; *Canada*, 2s. 9d.; *Peru*, 5s. 4d. per lb., spot.

BARBASCO ROOT.—The better inquiry recently noted continues, quoted prices are rather irregular, as to seller. Spot, 5 per cent. rotenone, 1s. to 1s. 1d. per lb. Stocks appear to be limited here.

BELLADONNA.—Occasional small spot business: leaves, 65s.; root, 57s. 6d. per cwt., spot.

BUCHU.—The position here continues firm, with supplies available very small. Old crop held for 1s. 8d. for rounds and the source is asking 1s. 5d. to 1s. 6d. per lb., c.i.f.

BURDOCK ROOT.—Modest inquiry, with dealers quoting small parcels at about 80s. per cwt., spot.

CAMPHOR.—Market has been dull with small routine business, quoted unchanged: Japanese, spot, tablets, 2s. 6½d.; powder, 2s. 4½d.; slabs, 2s. 4d. per lb., ex store. Shipment, tablets, 2s. 2d.; powder, 2s. 1d.; slabs, 2s. 0½d. per lb., c.i.f. English refined is still unchanged; flowers, 1 cwt., 3s. 1d.; 28 lb., 3s. 2d.; small lots, 3s. 3d. per lb. Transparent tablets, 4 oz., 8 oz. and 16 oz., 3s. 4d.; 1 oz. and 2 oz., 3s. 5d.; ½ oz., ½ oz. and ¼ oz., 3s. 6d. per lb.; special prices for contracts and quantities.

CANTHARIDES.—Business of no consequence: Russian, 6s. 9d.; Chinese, 2s. 3d. to 2s. 4d. per lb., as to quantity, spot.

CASCARA SAGRADA.—A fair inquiry continues here and with limited supplies on spot and offering for shipment values are well maintained. On spot, 1932 peel, 55s.; 1933 peel, 52s.; 1934 peel, 50s. per cwt. A few small lots of 1935 peel have been offered for shipment at 42s. 6d., c.i.f. 1933 and 1934 peel quoted at 45s. to 46s. per cwt., c.i.f.

CHAMOMILES.—A small business, with spot flowers quoted from 110s. to 130s. per cwt., as to quality. Market is steady.

CLOVES.—Market is steady, business quiet: Zanzibar, spot, 7½d.; shipment, December-January, 6½d. per lb., c.i.f. Madagascar, in bond, 6½d.; shipment, December-January, 6½d. per lb., c.i.f.

The landings of Zanzibar in London during the week ended December 7 were nil and the deliveries 1, leaving a stock of 2,572. From January 1 to date the landings of Zanzibar have been 2,960 and the deliveries 3,412. Landings of Madagascar for the week ended December 7 were nil and the deliveries 426, leaving a stock of 62. From January 1 to date landings of Madagascar have been 4,031 and the deliveries 4,294 packages.

By Government notice, as from January 1, 1936, no person shall export clove stems from Zanzibar except under licence issued by the British Resident.

COCOA BUTTER.—Market is quoted steadily. Prime English, 8½d. to 9½d. per lb. Foreign, 8½d. to 9½d. per lb., as to quantity.

COCONUT (DESICCATED).—Values are slightly easier, market steady but quieter: spot, fine, 24s. 3d.; medium, 24s. 3d. per cwt.; shipment, halves, December, 23s. 6d.; January, 22s. 9d. per cwt., c.i.f.

COD-LIVER OIL.—Bergen reports the shipment market remains quiet but fairly steady: finest Lofoten, steam refined non-freezing medicinal oil, 87s. 6d. to 88s. per barrel, c.i.f., London; spot, in small lots, 132s. per barrel, ex store, duty paid. Newfoundland, non-freezing medicinal oil, 130s. per barrel, ex store. British non-freezing medicinal oil is now quoted at 110s. to 112s. 6d. per barrel, c.i.f. London, duty free, while quotations from another home source are at higher figures.

COLCHICUM.—Dealers are quoting small parcels of root at about 42s. 6d. per cwt.; seeds at 1s. per lb., spot.

DANDELION ROOT.—The very small supply of foreign root is well held on spot from 80s. to 85s. per cwt., as to quantity.

DERRIS ROOT.—Inquiry is still on a better scale, with prices ranging from 11d. to 1s. 2d. per lb., as to test, landed.

DIGITALIS LEAVES.—Dealers are quoting green leaves on spot from 87s. 6d. to 90s. per cwt., as to quantity. Market quiet.

ERGOT.—High prices continue but business is slow. On spot Russian is quoted from 5s. 7½d. to 5s. 9d., and in one quarter held for 6s. 1½d. Portuguese and Spanish, 7s. 9d. per lb. A few shipment offers of Spanish or Portuguese at about 6s. 7½d. to 6s. 9d. per lb., c.i.f., but these have failed to attract buyers.

GENTIAN.—Spot supplies of French root are steadily held for 37s. 6d. per cwt., in small lots.

GINGER.—Values for West African are steady, market quieter: West African, spot, 50s.; for arrival, 41s. per cwt., c.i.f. Jamaican, spot, bold, in barrels, 97s. 6d. to 100s.; small grinding, 72s. per cwt., in bags, ex store.

GUM ACACIA.—Market has been quiet, and is again quoted easier. The tone is not steady: spot, Kordofan, cleaned sorts, 47s.; bleached o. 1, 110s.; extra, 120s. to 122s. 6d. per cwt.; shipment, Kordofan cleaned sorts, 42s. per cwt., c.i.f.

HENBANE.—Dealers are quoting spot from 80s. to 85s. per cwt., to quantity.

HENNA.—Market remains quiet. Indian, 30s. to 32s. 6d.; Egyptian, 30s. per cwt.

HYDRASTIS.—Not much doing here, but prices are maintained, 11th spot at 9s. 3d. and shipment at 9s. per lb., c.i.f.

IPECACUANHA.—It is now difficult to find even two or three bales of genuine Matto Grosso of B.P. quality on spot. Business has been one at 5s. 6d., and there are buyers at this figure. Some limited quantities just shipped and due to arrive here about the end of January are limited at 5s. 9d. per lb., landed.

LIGUORICE ROOT.—Decorticated is available on spot at 37s. 6d. to 3s. 6d., as to quality. Natural root is quoted from 12s. 6d. to 3s. per lb., as to quantity.

LYCOPodium.—Spot is nominal owing to lack of supplies. Some small lot, to arrive, is offered at 7s. per kilo, landed.

MEHTHOL.—This market has been slow and is again slightly lower in quotation. K/S brands, spot, 13s. 6d.; in bond, 12s. 3d.; afloat, 11s. 9d.; shipment, November-December, 11s. 9d., c.i.f. Japanese shippers quote December-January, 11s. 10½d.; January-March, 11s. 9d. per lb., c.i.f.

MERCURY.—The Spanish-Italian group report their shipment price well maintained and business continues on a good scale. Quoted at 10 dollars 50 cents per bottle, f.o.b. Continent; spot, in small lots, 2 18s. 6d. per bottle, ex store.

OPIMUM.—Modest spot business at firmer prices: spot, 1s. 5d. to 1s. 5½d. per unit, landed and duty paid. The controlled price is about 1s. 6d. per unit, landed.

ORRIS ROOT.—The limited supplies of Florentine root are steadily held for 57s. 6d. to 60s. per cwt., as to quality and quantity.

PEPPER.—The market has remained dull. Lampung, in bond, 3½d.; shipment, January-March, 2½d.; March-May, 2½d., c.i.f. Teller, spot, 5½d., nominal shipment, new crop, January-March, 5s., c.i.f. Aleppo, spot, 4½d.; shipment, new crop, January-March, 5s., c.i.f. White Muntok, spot, 6½d.; shipment, January-March, 6½d. per lb., c.i.f.

PIMENTO.—Values have not been fully maintained at their recent high level, market quiet. Spot, 6½d. per lb.; shipment, December-January, 55s. per cwt., c.i.f.

QUASSIA CHIPS.—Spot values are in the region of 22s. 6d. per cwt. for small parcels. Business slow.

QUILLATA BARK.—Dealers are offering supplies of crushed bark at about 35s. per cwt.; demand slow.

RHUBARB.—The very few odd cases of Shensi now left on spot are only held for 4s. 3d. to 4s. 6d. per lb. In rough round, all pinky firm at 1s. 6d. to 1s. 7d., and ordinary quality at 1s. 5d. per lb. No offers for shipment from the source.

RUBBER.—Values show a slight recovery on the week, business moderate, closing dull. Standard ribbed smoked sheet, spot, 6½d.; January, 6½d.; February, 6½d.; March, 6½d.; April-June, 6½d.; July-September, 6½d.; October-December, 6½d. per lb.

SAFFRON.—Market continues firm at the recent advances: spot, P., 1898, prime, 47s.; extra, 45s.; super, 44s. per lb., and less for bulk quantities.

SARSAPARILLA.—A moderate inquiry on spot: Jamaican grey, 1½d. to 1s. 5d.; native, mixed colours, 10½d. to 1s. per lb., as to quantity, spot.

SEEDS.—ANISE.—Spot, duty paid, Spanish, 62s. 6d.; Bulgarian, 5s. 6d. CANARY.—Mazagan, first hand sellers at 35s., duty paid; Spanish, 45s. to 50s. CARAWAY.—Dutch quiet at 30s. 6d., duty paid. DRIANDER.—Morocco old crop, on spot, sold at 19s. 6d., duty paid. New crop quoted at 18s. 6d., duty paid, and for prompt shipment 1s. 9d., c.i.f., now offered. CUMIN.—Malta, 48s. 6d., spot; Morocco, 5s. 6d., duty paid, and 44s. 6d., in bond. FENUGREEK.—Morocco, spot, 14s. 6d., duty paid. For shipment, January-February, 11s. 6d., c.i.f. quoted. MUSTARD.—English, 21s. to 31s. 6d. per cwt., according to quality.

SENEGA.—Occasional small sales, with prices for spot and shipment unchanged at about 1s. 4d. per lb.

SENNA.—Good green new crop Tinnevely leaves are quoted as follows on spot: Picked bold, 8d.; No. 1, 6d.; No. 2, 4d.; No. 3, 3d.; No. 4, 2½d. Hand-picked Tinnevely pods are steady at 5d. for bluish green down to 3½d. for darkish quality, with manufacturing grades at 2d. to 2½d. per lb. Alexandrian: Moderate demand with prices tending better, particularly for the manufacturing grades. Some holders of these qualities have withdrawn their offers and are waiting for an improved market.

SHELLAC.—Values are lower on the week, market quiet: spot, standard TN orange, 55s. to 59s.; fine orange, 90s. to 150s.; pure cotton, 82s. 6d. to 90s. per cwt., spot. For delivery, TN, December, 5s.; March, 56s. For arrival, TN, December-January, 59s. per cwt., c.i.f.

SQUILL.—Dealers' prices range from 37s. 6d. to 50s. per cwt., as to quality and quantity.

STRAMONIUM.—Supplies of good green leaves are held for 45s., with seconds from 37s. 6d. to 40s. per cwt., as to quantity.

TONKA BEANS.—Spot supplies of fair frosted Para beans are rather dearer and up to 3s. Angostura, 8s. 6d. to 8s. 9d. per lb.

TRAGACANTH.—Market has been rather quiet with values generally unchanged. Druggists' white qualities continue scarce and firm at £26 10s. to £28 10s. for No. 1 and extra grades; No. 2 at £22 10s. to £23 10s. per cwt.

VALERIAN ROOT.—Dealers are quoting spot at about 50s. per cwt., with business slow.

WAX.—BRES'.—Market is keeping steady, business quiet: Abyssinian, spot, 120s.; in bond, 108s.; shipment, 107s., c.i.f. Benguella, spot, 120s.; shipment, 107s., c.i.f. Conakry, spot, 120s.; shipment, 107s. 6d., c.i.f. Dar-es-Salaam, spot, 120s.; shipment, 117s. per cwt., c.i.f. CARNAUBA.—The demand has been small; values unchanged. Fatty grey, spot, 182s. 6d.; shipment, December, 170s., c.i.f. Chalky grey, spot, 180s.; shipment, December, 167s. 6d., c.i.f. Primeira, spot, good quality is very scarce and firm at 225s.; afloat, 220s.; shipment, December, 210s., c.i.f. Mediana, spot, 210s.; shipment, December, 195s. per cwt., c.i.f.

Essential Oils, etc.

A MODERATE business is reported this week, but there are signs of the demand slackening as the close of the year approaches. Values are keeping quite steady. Sicilian oils are steady but quiet on spot. French lavender is easier. Japanese peppermint has been dull. Singapore patchouli is a very firm market.

ALMOND.—Market steady, business quiet: English-made, cwt. lots, 2s. 3d.; smaller parcels, up to 2s. 7d. per lb.; foreign cwt. lots, 2s. 2d. to 2s. 3d.; smaller parcels, up to 2s. 6d. per lb. French, bitter, 6s. to 6s. 6d. per lb., as to quantity.

ANISE (STAR).—Market tends to be steadier. Spot is still quiet but some of the re-sale parcels afloat have been taken up. There are still no offers from shippers: spot, leads, 2s.; tins, 1s. 10½d.; drums, 1s. 10d. per lb., ex store; shipment, afloat, tins, 1s. 8½d.; drums, 1s. 7½d. per lb., c.i.f., sellers.

BAY.—Market is dull, quoted unchanged: 49 to 50 per cent., 5s. 1½d. to 5s. 4d. per lb., as to quantity.

BERGAMOT.—The amount of inquiry on spot during the past week seems to have been unimportant. Holders' ideas of sales prices continue round about 8s. 1½d. to 8s. 3d., as to brand, and up to 8s. 6d. for small parcels.

BOIS DE ROSE.—Business has been modest, market steady: Brazilian, spot, 5s. 3d. to 5s. 4d.; shipment, about 5s. per lb., c.i.f., in drums.

CAJUPUT.—Occasional inquiry, quoted unchanged: B.P., 1s. 10d. to 2s. 1d. per lb., as to quantity.

CANANGA.—This market has been unsteady and is now weaker, with shipment not more than 9s., c.i.f., for a quantity. Spot offers are now from 10s. to 11s. per lb., as to seller.

CARAWAY.—Quotations for the Dutch rectified are unchanged. The Russian oil is being offered at much lower figures and seems to be attracting attention in some quarters: Dutch rectified, 10s. 6d. to 10s. 9d.; crude, 10s. 1d. per lb., landed and duty paid.

CASSIA.—There has been a little business in the shipment market with the price about 3s. 0½d. to 3s. 1d., c.i.f. There are spot sellers at about 4s. 3d. per lb.

CEDARWOOD.—Average inquiry, market steady: American and African oil, 1s. 1½d. to 1s. 2d., drums, and up to 1s. 4½d. per lb. for smaller parcels.

CINNAMON LEAF.—The recent slight improvement in the shipment market is maintained: Ceylon, spot, drums, 2s. 5d.; smaller packings, up to 2s. 10d.; shipment, 2s. 3d. per lb., c.i.f.

CITRONELLA.—This market is dull but the Java product is steady for shipment: Ceylon, spot, drums, about 1s.; smaller parcels, 1s. 1d. to 1s. 4d.; shipment, drums, 9½d. to 9½d. per lb., c.i.f. Java, spot, drums, 1s. 2½d.; smaller parcels, 1s. 3d. to 1s. 7d.; shipment, drums, 1s. 0½d. per lb., c.i.f.

CLOVE.—The Madagascar oil seems to be in limited supply on spot and offered sparingly for shipment: Madagascar, spot, drums, 3s. 1½d. to 3s. 2d.; smaller packings, up to 3s. 6d. per lb.; shipment, 2s. 7½d. per lb., c.i.f. English-made oil, 90 per cent., about 4s. 3d. per lb.

EUCALYPTUS.—Continues fully steady with business on fair scale: Australian, 70 to 75 per cent., 1s. to 1s. 0½d.; 80 to 85 per cent., 1s. 1d. to 1s. 1½d. per lb., landed; higher prices for small lots on spot. Spanish, 70 to 75 per cent., 1s. 2d. per lb., ex store.

GERANIUM.—Some business on spot is reported this week but at low prices; shipment continues steady: Bourbon, spot, 20s. to 22s. 6d.; shipment, 21s., c.i.f. Algerian, spot, 21s. 6d. to 22s. 6d.; shipment, 21s. per lb., c.i.f.

GINGERGRASS.—Supplies small, market quiet but steady: spot, 5s.; shipment, about 4s. 3d. per lb., c.i.f.

LAVENDER.—The recent tendency to easier terms noted here is now definite and general. Prices quoted vary according to brand of oil with good figures still required for finest genuine Mt. Blanc. The following figures are about the average of quotations: 50 to 52 per cent., 31s.; 48 to 50 per cent., 28s.; 40 to 42 per cent., 22s.; 38 to 40 per cent., 21s.; 36 to 38 per cent., 19s. per lb., landed. Lavandin is quoted from 12s. 6d. to 13s. 6d. per lb.

LEMON.—The spot market continues fairly steady and a modest business in limited quantities is being done: Sicilian hand-pressed is held for about 7s. 6d. to 7s. 9d. per lb., as to brand and quantity. Californian oil is unchanged: spot, large drums, 4s. 3d.; small drums, 4s. 3½d.; cold-pressed, 7s. 1d. per lb.

MANDARIN.—The scarcity of supplies of good quality oil is acute and values on spot are firm at 22s. 6d. per lb. for small parcels.

NEROLI.—Market remains dull with dealers quoting from 14s. to 18s. 6d. per oz., as to quantity and quality. This product became a free import on December 10.

NUJMEG.—Average business, market steady: English and American oil quoted from 5s. 1d. to 5s. 4d. per lb., as to quantity.

ORANGE.—Business in all kinds of oil has been unimportant. Sicilian sweet is nominal, spot and forward. French Guinea is in very small supply on spot, with drums, if available, about 3s. 2½d. and repacked oil in tins in cases, 3s. 4d. to 3s. 6d. per lb.; shipment offers of bulk quantities continue at about 2s. to 2s. 1d. per lb., c.i.f. It is understood that fair orders have been placed for the new oil, but so far there has been nothing shipped. Californian is unchanged on spot: one case, 3s. 4½d.; two or three cases, 3s. 2d.; small drums, 3s. 1d. per lb.

PALMAROSA.—This market is unsteady and easier: spot, 6s.; shipment, about 5s. 6d. per lb., c.i.f. Business has been disappointing for some time.

PATCHOULI.—This is one of the strongest markets, and prices continue to advance with supplies running very short. It is evident from inquiry being received here that world supplies of the Singapore oil are extremely limited, and there is nothing offering for shipment. Some spot holders now asking up to 13s. 3d. to 13s. 6d., and at these figures they are in no hurry to clear their stocks. Seychelles on spot is also dearer at 8s. 3d. to 8s. 6d. per lb., and shipment offers have dried up.

PEPPERMINT.—Limited spot and near afloat business, otherwise the market has been dull. Japanese oil, spot, 5s. to 5s. 1½d.; afloat, to arrive shortly, 5s., landed terms; shipment, October-December, 4s. 7½d.; January-March, 4s. 6d., c.i.f. sellers. Japanese shippers quote January, 4s. 9d.; February-March, 4s. 8d., per lb., c.i.f. Reports from shippers indicate that the best brands of American natural oil are slightly dearer with oil of 50 per cent. menthol content now quoted at 2 dollars 15 cents, and 46 per cent. menthol at 1 dollar 95 cents per lb., in drums, c.i.f.

PEITGRAIN.—This article was added to the Free List under the Import Duties Act on December 10, and became a free import. Spot supplies are limited and worth about 3s. 11d.; a fair amount of shipment business is reported with the price about 3s. 7d., c.i.f.

ROSEMARY.—Market has been dull. Spanish oil is quoted from 1s. 9d. to 2s. 1½d. per lb., as to quality and quantity. French, 3s. 3d. to 3s. 4d. per lb., spot.

SANDALWOOD.—Genuine East Indian Mysore, 19s. per lb., in one-case lots, on spot; market is rather unsteady, with cheaper offers in some quarters, particularly for good quantities. English-made East Indian, 22s. 6d. to 25s. per lb., as to quantity. English-made West Indian, cwt. lots, 6s. 9d.; 56 lb., 6s. 10½d.; 14 lb., 7s. per lb. Australian, case lots, 15s. 3d. per lb.

SASSAFRAS.—Business has been slow. Standard quality natural oil on spot, 3s. 7½d. to 4s. per lb., as to quantity. Artificial oil at cheaper prices.

SPIKE.—Business in the Spanish product has been slow for some time, and the market is not too healthy: quoted on spot from 4s. 4½d. to 4s. 10½d. per lb., as to quality and quantity.

VEHIVERT.—There are small lots of Bourbon available on spot at about 39s. per lb.; shipment, about 34s. 6d. per lb., c.i.f.

WORMSEED.—Market is steady, limited business: spot, up to 8s. 4½d.; shipment, 7s. 9d. per lb., c.i.f.

The following are current prices for synthetics, etc.—**ACETOPHENONE**, 6s. to 6s. 4d. per lb.; **AMYL ACETATE**, pure, 12s. 6d. per cwt.; technical, 107s. 6d.; **AMYL SALICYLATE**, 2s. 2d. per lb. for cwt. lots up to 2s. 6d.; **AUBEPINE**, ex para creosole, 8s. to 8s. 6d. per lb.; **BENZALDEHYDE**, f.i.c., 2s. 2d. to 2s. 4d. per lb.; **BENZYL ACETATE**, 1s. 3½d. to 1s. 8d. per lb.; **BENZYL ALCOHOL**, cwt. lots, 1s. 11d. up to 2s. 3d. per lb. for small lots; **BROMSTYROL**, 100 per cent., 9s. 6d. to 11s. per lb.; **BUTYRIC ACID**, 3s. 3d. to 3s. 6d. per lb.; **CITRAL**, chemically pure, steady at 6s. 4½d. to 6s. 9d. per lb.; **COUMARIN**, 7s. 3d. to 8s. per lb.; **DIETHYL PHTHALATE** is easier at 1s. 3d. to 1s. 8d. per lb.; **EUGENOL**, 7s. 6d. to 8s. per lb.; **GERANIOL**, ex palmarosa, 15s. to 17s. per lb.; **HELIOTROPINE**, 100 per cent. crystals, 6s. 3d. to 6s. 9d., as to quantity; **ISO EUGENOL**, 9s. 6d. to 10s. per lb. **METHYL ANTHRANILATE** is easier at 6s. to 6s. 6d. per lb. **MIRBANE**, 7d. to 8d. per lb.; **MUSK**, **KEONE**, 18s.; **AMBRETTE**, 16s. 6d.; **XYLOL**, 4s. 3d. per lb.; **TERPENEOL**, 1s. 4d. for ton lots up to 1s. 9d. per lb. for small parcels.

Industrial Chemicals, etc.

The demand for industrial chemicals continues on a good scale and home makers are doing the bulk of the business. Boric acid is dearer. Potassium permanganate is slightly easier. Oxalic acid is steady; imports will continue free of duty next year. Potash salts have met with more inquiry. **ACETIC ACID.**—Demand continues on a good scale, market steady: 80 per cent. technical, £38 5s.; 80 per cent. pure, £39 5s. per ton, in barrels; glacial, pharmaceutical, 90 to 100 per cent., £58, in glass demijohns; glacial, in barrels, £48 per ton, carriage paid in U.K. **ACETONE**, B.G.S.—Fair business moving with prices unchanged: £62 to £65 per ton, in drums, carriage paid in U.K. **AMMONIA (ANHYDROUS).**—Market is steady, business up to average: 99.95 per cent. material, 1s. to 1s. 2d. per lb., in loaned drums, carriage paid. **AMMONIUM CHLORIDE.**—Market is competitive, business limited: grey galvanising, £17 to £17 5s. per ton, in casks, ex store. **ARSENIC.**—Market has been dull. Continental, £16 to £16 7s. 6d., c.i.f.; Australian, £15 15s., c.i.f. Cornish, white powdered, £19 15s. per ton. **BLEACHING POWDER.**—Makers' prices for home trade steady: 35 to 37 per cent. chlorine, £8 12s. 6d. per ton, in softwood casks, carriage paid for four-ton lots. **BORAX.**—Commercial, granulated, £14 10s.; crystals, £15 10s.; powdered, £16; extra fine powder, £17; B.P. crystals, £23 10s.; powdered, £24; extra fine, £25 per ton, in free 1-cwt. bags; carriage paid in Great Britain; makers' quoted prices unchanged. **BORIC ACID.**—Commercial, granulated, £27; crystals, £28; powdered, £29; extra fine, £31; large flakes, £39 10s.; B.P. crystals, £36; powdered, £37; extra fine powdered, £39 per ton, for 1-ton lots and upwards, in free 1-cwt. bags, carriage paid in Great Britain; makers' prices have been advanced by £1 per ton. Smaller quantities about 2s. 6d. per cwt. extra. **FORMALDEHYDE.**—Business is quite good, but competition is very keen for bulk orders: 40 per cent., by volume, £22 10s. to £24 per ton, in casks, ex store, as to quantity. **FORMIC ACID.**—Business has been brisk and prices are fully steady. Quantities in casks, £43 12s. 6d.; smaller quantities, 46s. to 48s. 6d. per cwt., ex store. **LEAD ACETATE.**—Prices continue at high levels, market quiet: brown, £35 5s.; white, £36 5s. per ton, in casks, ex store. **LITHOPONE.**—Some very keen prices for bulk quantities have been quoted, British makers leading the market: 30 per cent., red seal, £16 to £17 per ton, delivered, as to quantity. **OXALIC ACID.**—Meeting with good demand and prices are very steady. This product has been re-exempted from liability to key industry duty from January 1 to August 19, 1936 (see p. 693 for complete list): quantities, in casks, £48 5s. per ton; smaller lots, in kegs, 57s. to 58s. per cwt., ex store. **POTASH CAUSTIC (88 to 92 PER CENT. SOLID).**—Dealers' prices are about steady; moderate business. Two-ton lots, £35 5s. and up to £36 12s. 6d. for smaller quantities. **POTASSIUM CARBONATE.**—More business, market fairly steady but competitive: 90 to 92 per cent., £27 to £28 per ton; 96 to 98 per cent., per ton, £28 7s. 6d. to £29 5s., in casks, ex store, as to quantity. **POTASSIUM CHLORATE.**—A limited business is reported at former figures: bulk quantities, £36 7s. 6d. per ton; smaller parcels, 4½d. to 6d. per lb., ex store. **POTASSIUM PERMANGANATE.**—Dealers' prices are slightly lower; business on a good scale: commercial quality, in cwt. drums, ton lots, 8½d.; five cwt., 8½d.; smaller parcels, 9d. to 10½d. per lb., ex store. **POTASSIUM PRUSSIAN.**—Market is steady but rather slow: yellow, £75 10s. to £76 per ton; smaller parcels, 8½d. to 9½d. per lb. **RED LEAD.**—Convention scale of prices shows no further change: 5/10 cwt., £33 10s.; 10 cwt./1 ton, £32 15s.; 1/2 tons, £32 10s.; 2/5 tons, £32; 5/20 tons, £31 10s.; 20/100 tons, £31; over 100 tons, £30 10s. per ton, less 2½ per cent., carriage paid; non-setting red lead, 10s. per ton dearer. Continental material £1 per ton cheaper. **SAL AMMONIAC.**—The market has received more inquiry, market steady but competitive: dog-tooth crystals, £34 10s.; medium, £31; fine white crystals, £15 5s. per ton, in casks, ex store. **SALTCAKE.**—Makers' prices steady at 62s. 6d. per ton, in minimum truck lots, carriage paid. **SODA CAUSTIC.**—Makers' prices for home consumption unchanged: 70 to 72 per cent., £13 12s.; 76 to 77 per cent., £14 per ton, carriage paid on contracts; spot, 10s. per ton extra. **SODA CRYSTALS (CARBONATE).**—Makers' home trade prices unchanged: £5 to £5 5s. per ton, in bags, delivered station. **SODIUM ACETATE.**—Market has been dull and is slightly easier at £19 5s. per ton, in casks, ex store, London. Quoted at about £18 10s. in the North of England. **SODIUM BICARBONATE.**—Makers' prices steady: refined, in bags, £10 10s. per ton, carriage paid. **SODIUM CHLORATE.**—Limited business moving with the market about steady: ton lots, £32 12s. 6d. per ton; smaller quantities, 4d. to 5½d. per lb., ex store. **SODIUM HYPOSULPHITE.**—Makers' prices are quoted unchanged: photographic pea crystals, £14 5s. per ton, in one-cwt. kegs, carriage paid on minimum two-ton lots; commercial, £10 5s. per ton, in two-cwt. bags, carriage paid on minimum two-ton lots. **SODIUM PRUSSIAN.**—Moderate business, quoted unchanged: bulk quantities, 5d. per lb., smaller parcels, 5½d. to 6d. per lb., ex store, as to quantity. **WHITE LEAD.**—Convention prices are steady: dry, English, less than 5 tons, £43 10s.; 5/15 tons, £38 10s. per ton, less 5 per cent., carriage paid; Continental, £1 per ton cheaper. Ground in oil, English, 1/5 cwt., £53; 5/10 cwt., £51; 10 cwt./1 ton, £50 10s.; 1/2 tons, £49 10s.; 2/5 tons, £48 5/15 tons, £46 per ton, less 5 per cent., carriage paid. Continental material, £2 per ton cheaper.

Correspondence

Letters should be written on one side of the paper only. Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

Chemists' Friends Scheme

SIR,—Several questions arise in one's mind on reading the account given by "Nobby's Brother" of the activities of unqualified men he has met (*C. & D.*, December 7, p. 690). Take the one he quotes with a drug account running into four figures; such a business must mean a considerable amount of dispensing of some kind or another, does the dispenser not find it awkward to be without scheduled poisons? He does a big prescribing business; do the doctors in his town, who know and respect him, look with a friendly eye on his prescribing practice? What would happen to those doctors if they recognised or assisted an unqualified practitioner? With an expert knowledge of pharmacy, biochemistry, diagnosis and prescribing, why not go through the mere formality of taking a diploma and legalising his status? Another instance quoted by your correspondent is that of an unqualified man who has every agency supposed to be given to chemists only; this is a matter to be viewed in a different light, because we know that in some cases such agencies are obtained by unqualified dealers, and it is these we shall have to watch if we are to make the Chemists' Friends scheme a success. In passing one might remark that there are firms of proprietary manufacturers having local agents who are supposed to keep a representative stock; as some of these goods contain scheduled poisons, how does the unregistered man fulfil the terms of his agency? This is another point which might be looked into by any chemist in the neighbourhood of a drug store with such agencies. There are some things with regard to this unqualified trading one can never understand; one is that in these arguments the drug store proprietor is always flourishing and turning over a far larger quantity of goods than the chemist, and therefore should be included in any scheme or it will not prove workable. The chemist, as usual, is said to be struggling against unqualified competition. Another idea always brought forward is that the unregistered men are only unqualified because they have no time or money to attend the examinations, in spite of the statements that the drug stores are buying in quantities to which few chemists attain. Somehow, when reading these explanations I always feel a little pleasure that I had the perseverance to overcome the want of time and money and to obtain the qualification.—Faithfully yours,

NOT RELATED (9/12).

Collective Advertising

SIR,—“Small Retail Pharmacist” (*C. & D.*, November 30, p. 661) suggests that if the companies continue to grow there will come a time when there will be no chemists but only chemists' assistants. I think that many small proprietors allow themselves to be unduly frightened by the multiple shops; I have had one opposite to me, and another not far away, for many years, and I have not been worried about it in the least; in fact, when I look at all the conditions I think it is rather a good position. The great thing is to ascertain the class of custom in the district and to cater for it; there are still many people who prefer the private chemist to the store if only they can get the right service. It is useless to attempt to compete with a large concern in the matter of low prices or elaborate shops, therefore one must attract the people who are not drawn by these things but are willing to pay a fair price if they are sure of getting what they want. “Small Retail Pharmacist” bases his conclusion on three points, one of which is that the combines advertise dispensing service extensively. I think it is a fact that generally the average number of prescriptions dispensed by the private chemist is higher than that in the company shop. A far greater danger appears to me to be the increasing sale of packed drugs and proprietary medicines by all kinds of small shops, market traders and travelling vans. Not only do we lose the immediate custom, but the idea is promoted in the public mind that these things are sold by anybody, and people become accustomed to purchasing them anywhere. This is where national advertising should play its part, if we could hit on the right type.—Faithfully yours,

MEDIUM SIZE (2/12).

Poisons List and Rules

SIR,—From your report of a meeting addressed by me at Blackburn (p. 664) some misunderstanding appears to have taken place with reference to an answer which I gave to one of the questions. I was referring to subsection 2 (b) of Rule 12, which stipulates that listed vendors can only supply a number of the stronger poisons to persons engaged in “the trade or business of agriculture or horticulture.” This rule, I submitted, would exclude the amateur gardener or small allotment owner pursuing this work as a hobby, but it would certainly not affect the “smallholder,” to whom agriculture or horticulture is a “trade or business.” I agree with one of the speakers that the Rules governing the sale of these agricultural poisons are likely to prove a source of litigation in the future.—Faithfully yours,

Salford.

E. H. SIMMONS.

Inspection of Pharmacies

SIR,—I do hope that with the appointment of inspectors the last indignity that can be offered to the professional side of pharmacy will cease. What other profession would submit to such a course? For example, Medicine, the Law, the Church, or even some of the smaller bodies who have only just seen the light of professional day would doubtless object. Then, again, the men or women inspectors may or may not have had considerably less experience than the men or women they seek to advise, or may not have even spent one day more in a pharmacy than the minimum time necessary to obtain their qualification. Pharmacy needs neither inspectors nor extra licences, but it does need the protection of the titles, the protection of all that its members qualified for (and what they thought they qualified for), and each time they go to the Government they get a little more taken away and given to others, if those unqualified pay the same price as is paid for a dog licence or a hawker's licence to the local borough or town council, supervised by the sanitary inspector. What is needed is more direct legislation for the good of the registered man, more additions for us and less subtraction. . . . The surgery of the medical man is still immune from any interference, even where dispensing is carried on. I say in conclusion that no difference ought to have been made between the two, the closed dispensary and the open pharmacy; and I am delighted to feel that I am at the end of a pharmaceutical career rather than at the opening, unless there is more liberty for pharmacy in the future.—Yours truly,

West End Lane,
Hampstead, N.W.6.

ALBAN ATKIN.

Packaging

SIR,—The articles on “Packaging for Chemists” are of practical utility. As an apprentice I spent days weighing and wrapping packets of salts and other drugs, and as a result learned to wrap neatly and quickly; but now the usual method is to pack these drugs in cartons or skillets or to buy them ready packed. There is no doubt that customers appreciate this style of packing, as it provides them with a container in which to keep the article without waste. For Glauber's salt it is necessary to use a grease-proof bag to prevent efflorescence, and many customers have remarked to me that the salts packed in this way do not become powdery. Cartons also lend themselves to window display and can be used effectively with a sample of the product in a glass container as a centrepiece; if more displays of this kind were made in our windows we should retain much of our legitimate trade which is being lost to other shops. There is just one objection to this method of packing drugs; it lends itself to the brand system, which may be a convenience to the single-handed man, but entails the annoyance of customers demanding different brands of everyday drugs. The moral is that chemists should pack their own goods, and have a style of carton reserved to them.—Yours truly,

WRAPPER (19/11).

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

J. R. (2/12).—NON-ALCOHOLIC GINGER WINE.—Non-alcoholic wines are generally known as "cordials," and we think the following formula for a non-excisable preparation will meet your requirements:—

Soluble essence of ginger	2 oz.
Tincture of capsicum	1 dr.
Tincture of clove	1 dr.
Tincture of cinnamon	2 dr.
Caramel	1½ dr.
Syrup	5½ pints
Water	to 1 gall.

O. L. (9/12).—PERFUMING FELT PADS.—The way to perfume felt pads without wetting them is to enclose them in a chamber in which a small amount of the perfume can be volatilised. Possibly you could meet your requirements by spraying the edges of a pile of the pads with the perfume.

G. F. (14/12).—CUTICLE SOFTENER.—A modern cuticle softener without caustics is:—

Triethanolamine, 80 p.c.	1 part
Distilled water	1 part

D. H. (26/11).—MEDICATED SNUFF.—Few extraneous ingredients can be mixed with tobacco snuff (see *C. & D.*, 1935, I, 769). We suggest cinnamon or cascarrilla as a suitable brown powder for use as a basis.

J. M. (15/11).—CREPE PAPER FOR DISPLAYS.—An informative article on the use of crêpe paper in making displays was published in the *C. & D. Diary*, 1935.

E. C. (9/12).—STEAMY WINDOWS.—Special heating appliances for preventing moisture on windows are sold by most shop-fitters. The primary cause of a steamy window is the condensation of water vapour brought about by the varying temperature. The usual procedure is to rub the window with a cloth soaked in a mixture of glycerin and methylated spirit, equal parts. Much can be done by means of ventilation, and the following suggestions will assist in solving the problem: To every window boxing there should be six ventilators—two in the floor or through the bottom of the shop front, outside; one each end of the window flooring inside; and two in the back of the window frame, at the top. This gives a supply of cold air and keeps the outside and inside temperatures at the same level. During a freezing period, care should be taken not to show goods easily smashed by the cold. Various mixtures of soap and glycerin are used for preventing condensation of moisture on windows; the thin film of soap left behind prevents, for a time, deposition of moisture.

Yellow soap	4 oz.
Glycerin	2 oz.
Hot water	12 oz.

Mix the cut-up soap with the hot water until a cream results, then add the glycerin.

L. K. (2/12).—WATERPROOFING SOAP.—In order to prevent the Floating Soap Babies from going into solution while on display we suggest dipping them in melted wax. Quite a thin coating should be sufficient for your purpose.

C. H. (29/11).—MASTITIS IN COWS.—A mastitis-affected cow should be separated and given an individual attendant or one who would milk her last and wash in disinfectant. Simple cases should be frequently drawn and given a purgative, and care should be taken to prevent body and udder chill. Cows suffering from acute mastitis require to be kept in, rugged down and warmly bedded, and placed in good hygienic conditions. If the animals are purging, or the temperature is high, strong purgatives should be avoided, but mild salines may be given with advantage. Potassium nitrate and camphor or ammonia and sodium bicarbonate in large doses are said to give the best results. There should be frequent and gentle stripping of the udder; rubbing should be avoided early on, but later camphorated oil or iodine in oil are beneficial; fomentations are useful if well applied; also dry flannel to give

warmth. While the udder is heavy it should be suspended. All acute cases should be covered. Injections of aqueous solutions are contra-indicated. Oily injections such as solution of iodoform in ether, rape oil (pure) or castor oil, are helpful in shortening the acute stage, reducing the number of clots and helping their removal. Gentle massage with the oils mentioned helps to remove the obstruction in the ducts. Attempts should be made to produce an osmosis in the tissues by salines and the removal of toxins by the kidneys, intestines and skin. When the inflammation has subsided, the milk fails to return and the secretion becomes pus-like, then one may resort to injections of various kinds: boric acid, 3 per cent., chinosol, 15 gr. to the pint of water; borax, 3 per cent. solution; sodium fluoride, 0.1 to 5 per cent.; acriflavine and its derivatives, 1 in 1,000 to 1 in 4,000. All injections should be weak solutions given at body temperature and under aseptic conditions. Collosol manganese, 10 c.c., has been helpful in some cases after the acute stage has passed, but not at the commencement. Sub-acute and chronic mastitis of the catarrhal type may be treated with advantage by injections of the gland, but internal treatment should not be neglected. Chinosol, 15 gr. to the pint, ac. boric, 3 per cent., ac. boric and iodoform, have been well tried and found useful. In cases where secretion is abundant, an injection of 4 oz. of zinc sulph., 10 gr. to the pint, has helped to check it. Internally, potassium nitrate 4 oz. and camphor 4 dr. daily have given good results.

L. M. D. (22/11).—LIME CREAM AND GLYCERIN.—The following is a formula containing triethanolamine:—

Stearic acid	3j.
Triethanolamine	3iiss.
White mineral oil	3x.
White petroleum jelly	3j.
Spermaceti	3ss.
Glycerin	3j.
Water	3xv.

Melt the oil, etc., together. Bring 5 oz. of water almost to the boil, add the triethanolamine, and stir into the oil. Stirring must be continued for a considerable time should an emulsifier not be available. Heat the remainder of the water to about 150° F. and slowly pour into the mixture after it has cooled to the same temperature. Formaldehyde can be used as a preservative. Lime oil terpenes 10, lemon oil 10, citronella oil ½, is a good odour for lime cream.

J. H. (6/12).—DIABETIC LOZENGES.—Lozenges containing lactose are unsuitable for diabetic patients. We think it will be preferable to make the lozenge with a gelatin base and incorporate a small amount of mint or other flavour.

Retrospect of Fifty Years Ago

Reprinted from
"The Chemist and Druggist," December 15, 1885

Strophanthus

At the Cardiff meeting of the British Medical Association, Professor T. R. Fraser, F.R.S., president of the Section of Pharmacology and Therapeutics, contributed a valuable paper on "The Action and Uses of Digitalis and its Substitutes, with Special Reference to Strophanthus." This paper is printed in full in "The British Medical Journal" of November 14, and in it will be found interesting physiological and therapeutic results, the cream of fifteen years' patient investigation and trial. Meanwhile, our intention is to direct attention to the comparatively rare drug strophanthus. Professor Fraser's attention was first called to it in 1870, when he heard of it as an African arrow poison. He then submitted it to a chemical and physiological investigation, and isolated from the drug a crystalline principle possessing all the active properties of this drug. This he named strophanthin. It is not an alkaloid, but appears to be of a glucosidal nature.

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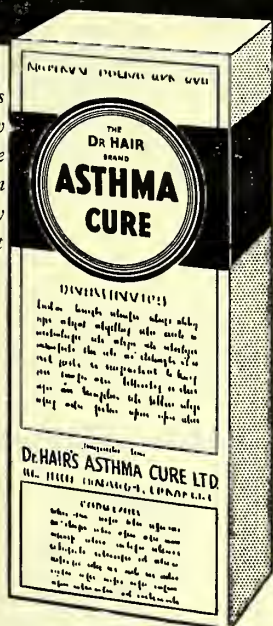
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Oxygen - - not more than .02%
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The bland properties of 'Dettol' permit its use at really effective strengths on body tissue and it thus possesses marked superiority over carbolic and cresylic antiseptics. 'Dettol' is non-poisonous, non-corrosive, non-staining and has an agreeable odour. It is three times more efficient than phenol, or half as strong again as B.P. solutions of cresols with soap.

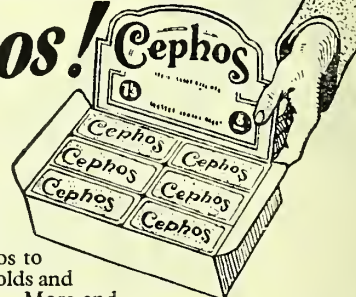
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THE NEW ANTISEPTIC
BECKITT & SONS LTD. (PHARMACEUTICAL DEPT.), HULL
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Now's the time for a bold window and counter display. Push Cephos to the front now. Colds and Flu are prevalent. More and more of your customers need the Physician's Remedy. All over the country the sales of Cephos have jumped up during the last few weeks. They will keep on going up all through the winter. Get your share of the sales and profits. Keep good supplies in stock and display them prominently.

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Cephos Ltd., Blackburn

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Asmolin Brand Tablets can safely be recommended in all cases of Asthma, Hay Fever, Bronchitis, etc., and gives instant relief.

Asmolin has an excellent and effective formula, an easily remembered name, is attractively got up, and wherever introduced commands ready and repeated sales. It shows a large profit margin on our permanent bonus terms (only 18/- worth) you can obtain direct or from your usual wholesaler.

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There is a regular and constant all-the year-round demand for—

Consistent advertising ensures steady sales. Counter literature gladly sent on request. Your usual wholesaler can supply, or you can order direct from the makers.

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(Non-Intoxicating)

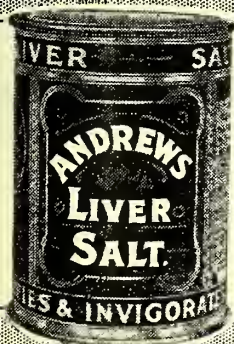
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To those customers who allow us the use of their windows we offer 5/- for their opening order for 6 dozen MASON'S EXTRACT OF HERBS (or 10/- for 12 dozen).

The window display is most attractive and perfectly simple and can be fixed up in a couple of minutes

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PURE MALT EXTRACT

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NORWEGIAN COD LIVER OIL

The Brand that does not separate nor crystallise.

Your own name and address on labels. In English jars, etc. Direct from the actual manufacturers.

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Supplies of Calder Yeast Tablets may be obtained through Wholesalers

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Simpkin's
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So writes Mrs. Frank Forbes Robertson, the West End Actress and Film Star, in a letter expressing gratitude for the wonderful relief these confections have given her.

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WITH ZIPP FASTENER OR PRESS STUDS
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Sizes ...	10" x 6"	10" x 8"	12" x 8"	12" x 10"	
	14/3	15/9	17/3	19/-	doz. net.

To fit the moulded hot water bottle, sizes 2 and 3, 18/- doz. net.
Supplied in Pink, Light Blue, Dark Blue and Orange Corduroy or Velour

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This handy first-aid dressing provides
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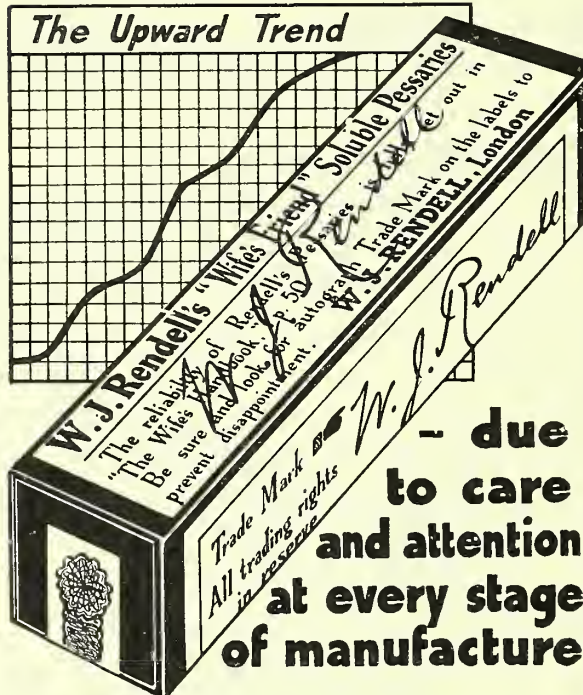
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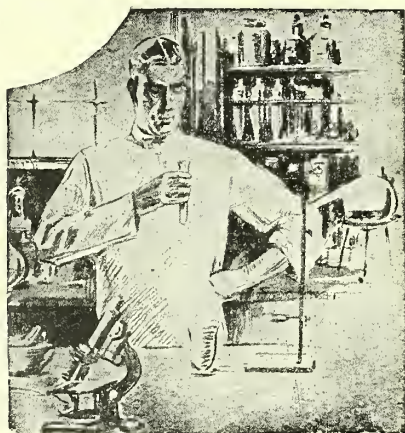
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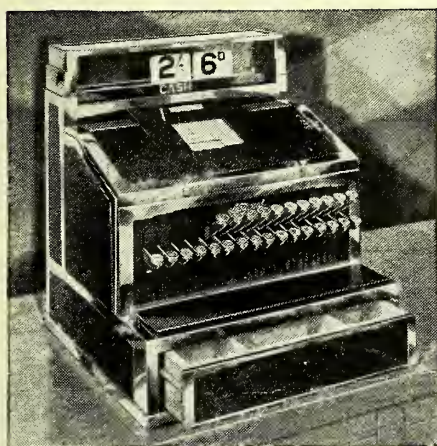
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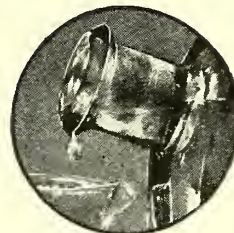
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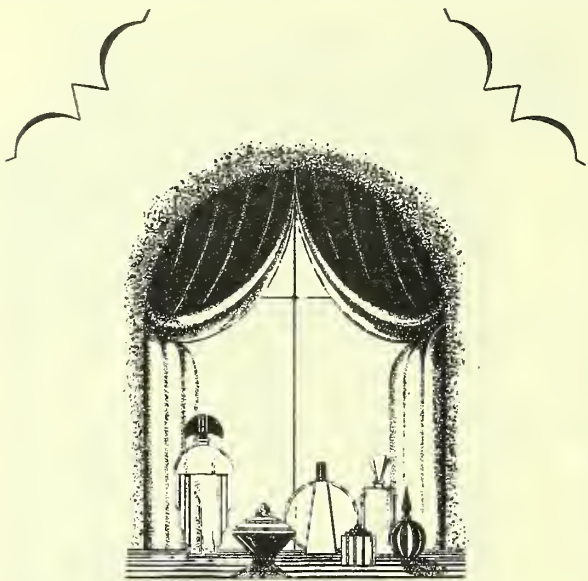
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Little refinements, such as this special shape of lip which pours cleanly drop by drop, show our long years of experience in chemists' wants.



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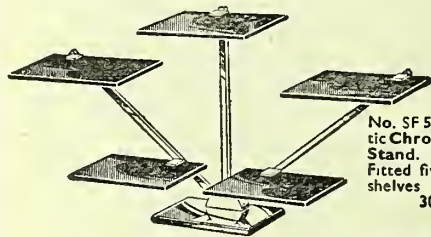
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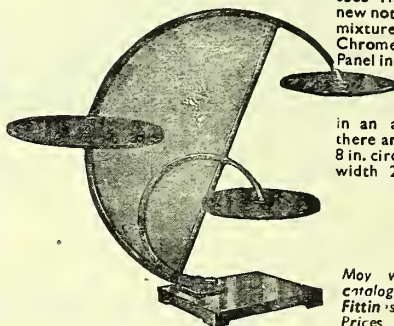
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NEATLY PACKED IN 3 AND 6 DOZEN SIZE, NON-RETURNABLE CARTONS

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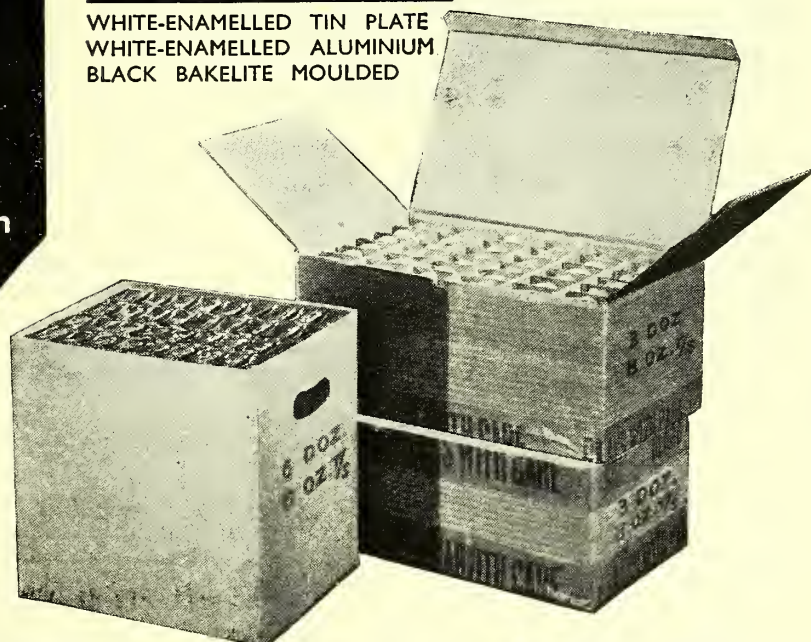
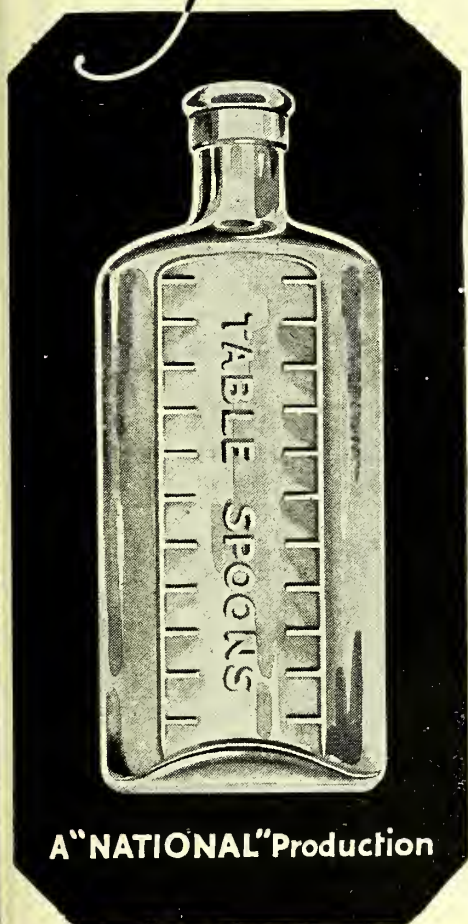
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With inscriptions in any desired tint;
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In 17 Sizes to fit the various types of Cachet Machines.

"VITAMIN TESTED YEAST"

Yeast specially prepared for medicinal purposes
GUARANTEED ABSOLUTELY PURE
MIDGLEY & PARKINSON, LTD.
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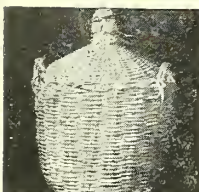
Greatest of all Rheumatic Remedies

1'3 SIZE, 7' DOZ., 3' SIZE 17'6, 5' SIZE, 25'
THE ACTON PILL & TABLET CO. LTD. ASH VALE, SURREY

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Obtainable from the usual wholesalers or the makers
MOLSON IONIZED IODINE CO. Ltd.
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FOR SALE—
EMPTY GLASS DEMIJOHNS
IN WICKER AS PER ILLUSTRATION
Capacity 45 lbs. net. 4½ galls.
Diameter 14½ ins. Depth 17½ ins.
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1/3 Packet of 24 Powders Replaced by New

1! PACKET OF 21 POWDERS

Such an offer of better value to the Public is certain to create an increased demand for a line which is already highly popular. The new size shows an excellent profit at 8/- per dozen, while orders of 1 dozen or more, or any quantity included in a £2 parcel, are charged at 7/6 per dozen.

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SHERLEY'S

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Specially Prepared for

CATS

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Shelves, size 8 x 5 ins. Overall
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"Clements" Display Stands are used
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Carriage paid in England
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Write for Free List
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stands.

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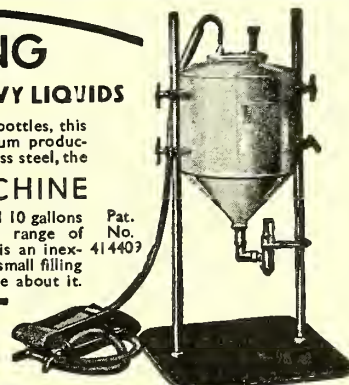
Although primarily placed on the market for filling sprinkler-neck bottles, this machine is equally efficient with other containers and gives maximum production at minimum costs. Simple to use, sturdily constructed of stainless steel, the

LAUDER 4a Compressed Air FILLING MACHINE

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This machine is made in 3 sizes (2, 5, and 10 gallons capacity), complete with pump and range of nozzles (ordinary and canulae). This is an inexpensive machine which can solve your small filling problems. Ask us to tell you more about it.

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The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

DECEMBER 14,
1935

28 ESSEX STREET, LONDON, W.C.2

ADVERTISEMENT TARIFF

ALL ADVERTISEMENTS are PREPAID, so that remittance must accompany instructions in each case. If it be necessary to telephone or telegraph an urgent announcement this may be done, provided the money is telegraphed at the same time.

BUSINESSES WANTED and for **DISPOSAL**, **PREMISES TO LET** and **FOR SALE**, **PREMISES WANTED**, **PARTNERSHIPS**, **GOODS for SALE** and **AGENCIES**—6/- for 50 words; every additional 10 words or less, 6d. (Box No., 1/- extra.)

SITUATIONS OPEN—6/- for 40 words; every additional 10 words or less, 6d. (Box No., 1/- extra.)

SITUATIONS WANTED—2/- for 18 words; every additional 10 words or less, 6d. (Box No., 1/- extra.)

LEGAL NOTICES, **TENDERS**, **AUCTIONS**, and all specially-spaced announcements, 1/3 per nonpareil line (12 lines = 1 inch single column). (Box No., 1/- extra.)

MISCELLANEOUS (Wholesalers') Section for odd and second-hand lots—10/- for 60 words; 1/- for every additional 10 words or less. (Box No., 1/- extra.)

EXCHANGE COLUMN (for Retailers, etc.)—Twopence per word, minimum 2/- (Box No., 1/- extra.)

THE CHEMIST & DRUGGIST, 28 Essex St., Strand, London, W.C.2
Telephone: Central 6565 (8 lines). Telegrams: "Chemicus, Estrand, London."

CLOSING FOR PRESS

must reach us
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FIRST POST THURSDAY MORNING

All advertisements intended for
insertion in this Supplement

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ESTABLISHED 1846 Telephone Nos.: CITY 2283 & 7477
May be CONSULTED at their Offices on MATTERS of SALE, PURCHASE & VALUATION

We make no charge to purchasers, and invite intending buyers to communicate with us, stating their requirements

- 1.—LONDON, S.E.—Good Middle-class Cash Retail Business for immediate disposal; takings about £2,000 per annum; good profits; new lease; very reasonable purchase price; advantageous sub-lets.
- 2.—BEXHILL (NEAR).—High-class Retail and Dispensing Business taking about £3,250 per annum; flat over; advantageous sub-lets; reasonable purchase price: in all about £2,650.
- 3.—DEVON COAST.—Good Middle-class Business, occupying splendid position in centre of important town; much neglected; net profit this year about £500: must be sold immediately for special reasons; price £1,200 all at; stock worth about £800.
- 4.—SUSSEX COAST.—Good Middle-class Business, situate in excellent position; established 120 years; returns for last completed year £2,609; has been neglected owing to ill-health; good profits; stock worth about £600; reasonable rental; price £2,150 or near offer.
- 5.—CORNWALL.—Branch Business for disposal; established over 50 years; returns for last completed year £2,140; excellent profits; rent £120 per annum; living accommodation; enquiries invited.
- 6.—NORFOLK.—Seasonal Business; this year's returns will be about £2,000; scope for considerable increase; accommodation over, at present used for storage; accountant's figures available; price asked, small premium for lease and goodwill, plus value of stock and fixtures.
- 7.—HORSHAM.—Good-class Cash Retail Business, offering scope for increase; vendor must sell immediately, having purchased another business; net profit about £300 per annum; good, clean stock; spacious living accommodation; price about £500 all-at.
- 8.—ROMFORD (NEAR).—Cash Retail Business with Wireless connection; net profit last year £408; rent £100; sub-let £52; stock worth about £300; price all-at £500; quick sale desired.
- 9.—HENLEY (NEAR).—Good class Business, with Kodak Agency and Library; established many years; cash takings for last six months £18 per week, plus small panel; good, clean, saleable stock; double-fronted shop, with good-sized house; private entrance; rent £60 per annum; low offer secures.
- 10.—FULHAM.—Cash Retail Business, with excellent panel, about £300 per annum; very old established; average cash takings £23 per week, plus panel; stock worth about £325; rent £70 per annum; sub-let £50; 21 years' lease; offers invited.

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FOR YOUR

NEW YEAR STOCKTAKING DATE

REASONABLE CHARGES. EXPEDIENT and ACCURATE SERVICE

Chemists' Transfers, Valuations for Sale, Stocktaking & Probate

Special Terms for Income Tax Valuations and Preparation of Accounts by Qualified Accountants.

ERNEST J. GEORGE & Co.

Bank Chambers, 329 High Holborn, London,
Telephone Nos. : Holborn 7406 & 7407 (2 lines) W.C.1
-15 Bridge Street, Walsall Telephone : Walsall 3774

Lancashire and District Representative : Mr. E. BROWN, 21 Davenport Road, Hazel Grove, Stockport. Telephone : Great Moor 2405

Correspondence, mutually confidential, is invited from prospective purchasers of the following businesses at present available for purchase.

(C1) SOUTH DEVON.—Old-established business, occupying prominent position in popular seaside resort; present turnover averages approximately £1,800 per annum, but these figures are capable of early substantial increase; net profit upwards of £400; stock about £800; for a quick sale, £1,200 all-at will be accepted; early inquiry strongly advised.

(C2) LEEDS.—Good-class business, with living accommodation, situated in growing residential area; turnover approximately £1,700 per annum, with genuine scope for further increase; rent £120; price £1,050, including stock and fixtures, estimated at £850; owner reluctantly compelled to sell owing to continued illness.

(C3) STAFFS.—Unopposed general country business for sale owing to retirement; turnover approximately £2,000 per annum; low rental; price about £900, including stock, £400, subject to valuation.

(C4) SOUTH-WEST COUNTRY.—Family business, situated in main street of busy market town; turnover during the past three years has shown rapid increase, and for the financial year recently ended exceeded £3,000; net profit approximately £500; accountants' figures; self-contained house; price about £1,750; offers considered; please supply bankers' references.

(C5) LONDON, N.W. (OUTER SUBURB).—Attractive modern pharmacy, situated in rapidly-growing residential area; turnover steadily increasing, and should undoubtedly show big strides within the next two years. Returns for 1934-35 upwards of £2,500; living accommodation if required; genuine reason for selling; reasonable purchase price.

(C6) FOREST GATE.—Retail and dispensing business with flat above (optional); increasing turnover, at present at the rate of approximately £1,400 per annum; low rental; long lease; price £750, including stock, £350; valuation terms if preferred.

(C7) WESTCLIFF.—Splendid opportunity for enterprising chemist to acquire good progressive family business in prominent residential district; accountants' figures; turnover for last financial year, £1,363; net profit, £335; rent £100, including good house; immediate sale desired, and owner will sell at sacrifice figure; part of purchase-money could probably be raised on loan if necessary.

(C8) LONDON (OUTER NORTHERN SUBURB).—Main-road middle-class business; certified turnover for 1934-35, £1,580; net profit £183; rent £78, including five-roomed house; price £600-£700 all-at; owner leaving pharmacy.

(C9) BRIGHTON.—Main road neglected business with excellent opportunities for increase over the present turnover, which averages approximately £1,000 per annum; living accommodation; owner

desirous of quick sale for genuine reasons, and will accept first nearest offer to £500.

(C10) WARWICKSHIRE.—Good family business with up-to-date living accommodation; no near opposition; average returns approximately £1,450 per annum; rent and rates £104 16s.; lease 22 years unexpired; price £200, plus value of stock and fixtures.

(C11) LONDON, W.—Drug store, old established, with particularly good scope for substantial development; turnover upwards of £1,200 per annum; rent £100, including living accommodation; price £650 all-at, of which stock is estimated at £300, and fixtures £250.

(C12) HORNSEY (NEAR).—Good family business in present hands 40 years; large panel; turnover now approximately £1,500 per annum, with plenty of scope for further increase; self-contained house; owner retiring; £300 is asked for goodwill, plus value of stock and fixtures; open to offer.

(C13) ROMFORD (NEAR).—Excellent opportunity for keen, energetic chemist with limited capital to acquire a business possessing plenty of scope for increase over the present returns, which amount to £20-£25 per week; low rental, including good living accommodation; approximately £450 will acquire, part of which might remain to an approved purchaser.

(C14) SUTTON (SURREY).—Good middle-class business, with some optics; steadily increasing returns, which for last financial year amounted to £1,878; net profit, £400/£450; modern flat above; stock and fixtures estimated at £950; for quick transaction owner will sell at sacrifice price of £1,100 all-at; splendid opportunity, particularly for chemist-optician.

(C15) EARL'S COURT.—Good-class business, prominently situated, for quick disposal at "bargain" figure; turnover for 1934 financial year, £1,753; rent £100; scope for substantial increase; first reasonable offer secures.

(C16) NORWOOD.—Attractive modern pharmacy occupying prominent position in busy shopping street; old-established, but neglected for a long period; is now showing good progress, and is capable of substantial increase; present returns, £1,250/£1,300 per annum; net profit to owner-proprietor upwards of £300; reasonable purchase price; early enquiry strongly advised.

(C17) SURREY.—Attractive modern pharmacy, with up-to-date house, situated in rapidly growing area amid very congenial surroundings; present returns small, as owner is handicapped through lack of capital, but the future possibilities are exceptional; very reasonable overheads; no opposition; price about £350 all-at (value of stock and fixtures).

(C18) WILLESDEN (NEAR).—For sale, owing to retirement, congenial middle-class business situated in populous area; present returns approximately £20 per week, with extensive scope for further development; attractive, well-fitted pharmacy; reasonable purchase price.

Valuations for transfer, probate, income tax, etc., promptly executed at economical rates.

BERDOE & FISH

CHEMISTS' VALUERS AND TRANSFER AGENTS,

41 Argyle Square, KING'S CROSS, W.C.1

(One minute from St. Pancras and King's Cross Stations.)

1.—SOUTH COAST.—Good-class Family and Dispensing, not a seasonal trade; returns £1,900; gross profit over £700; double-fronted shop (lock-up); well fitted and stocked; good position; price £1,450; personally recommended.

2.—SURREY (few miles out).—Good Middle-class Business; returns £1,456, net profit £396; modern house, every convenience; stock and fixtures worth £750; price £950.

3.—MONMOUTHSHIRE.—Sound Chemist's Business; in exceptional position; returns approx. £1,000, can be doubled; handsome modern shop, every convenience; rent £65; price £550 or best offer, simply value of stock and fixtures.

4.—KENT (14 miles out).—Unopposed Village Business; pleasantly situated; returns £1,100, net profit £300; stock and fixtures worth approximately £600; price £750 or offer.

5.—SOUTH-EAST COAST.—Light Cash Retail with Photographic; increasing; turnover over £900; books properly kept; modern premises; excellent stock; price £500 or offer.

6.—EASTERN COUNTY.—Medium-class Light Retail, in important town; returns nearly £1,000; low rent, on lease; stock worth £350; illness sole reason for selling; price £550 or offer.

7.—LONDON, N.W. (Death Vacancy).—Light suburban Retail, in main-road position; returns last year £1,650, present returns less under manager; large well-fitted shop, fully stocked; house attached; price, simply valuation of stock and fixtures.

8.—LONDON, S.W.—Good-class Family Retail, in growing residential suburb; returns last year, under manager, £1,570; good profits; scope for increase; modern Pharmacy (lock-up); fully stocked; price £875; personally recommended.

9.—WEST MIDDLESEX.—Old-established Business; at present run as Drug Store; returns £25 weekly; main-road position; plenty of scope; good stock; price £650.

10.—NORTH LONDON.—Profitable Light Retail; returning £20 weekly under indifferent management; plenty of scope; well fitted; prominent corner position; price £300; stock at valuation.

BUSINESSES WANTED.

We have a large number of genuine Cash Buyers seeking sound concerns showing from £300 to £800 net profit yearly, and intending vendors desirous of a quick sale, without any publicity, should communicate with us at once.

Estab. 1870.

Telephone: Terminus 3574.

S. F. CLARK, F.N.A.A. 'Phone: Prospect 3366
CHEMISTS' VALUER & TRANSFER AGENT
34 Marksbury Avenue, Richmond, Surrey

I have for immediate disposal, a number of sound businesses in London, London districts, and elsewhere. All enquiries promptly and confidentially dealt with.
VALUATIONS for all purposes personally conducted in all parts of the British Isles.

THE ASSOCIATION OF MANUFACTURING CHEMISTS, LIMITED

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Holborn Viaduct, LONDON, E.C.1 2 Bixteth St., LIVERPOOL.

PARKIN S. BOOTH, Valuer. Tels.: CITY 3691 (4 lines).
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"THE RECOGNISED CHEMISTS' VALUER & TRANSFER AGENT"
135 Queen Street, Newton Heath, MANCHESTER

Having recently disposed of several sound concerns, I urgently require more £500/£5000
 "Expert service." "Personal attention." (Tel.: Falsworth 1913)

BUSINESSES FOR DISPOSAL.

6s. for 50 words or less ; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

BATTERSEA.—Lock-up Shop, at present in charge of manager; returns £18 weekly, plus N.H.I., average 325 monthly; stock £325; definite scope for increasing; rent and rates £70 per annum; net profit to owner-manager £300 per annum; working- and middle-class trade; owner has left retail for medical, wishes to dispose quickly; can be taken over immediately; price £450 all in. 93/17, Office of this Paper.

LONDON, WEST.—For Sale, Drug Stores; good position; modern house; excellent opportunity for Chemist; no near opposition. Full particulars on application to 94/4, Office of this Paper.

MIDDLESEX.—Good-class Dispensing; returns £1,600; long lease; good house; big scope for development; price by arrangement. 85/13, Office of this Paper.

MIDLANDS.—Splendid opportunity for M.P.S.; Drug Store and Photographic, Solo Agency; established 22 years; main thoroughfare; excellent corner position and living accommodation; 8 doctors in immediate vicinity; low rent; gold mine for Qualified man; price £350. "Ecnad," 93/28, Office of this Paper.

NORFOLK.—Drug Store, Photographic and Toilets; must sell at once owing to exceptional circumstances; excellent position; well-fitted, lock-up corner premises; suit Qualified; neglected owing to ill-health and poor management; new lease, moderate rental; first reasonable offer for s.a.v. secures. Full particulars 93/9, Office of this Paper.

SOUTH COAST.—Vendor leaving district; well-stocked and fitted Pharmacy; unopposed position on main road; returns £17 weekly; good prospects, as district is being rapidly developed; price £350 for immediate sale; exceptional opportunity, price representing value of stock and fittings only; good living accommodation. 93/26, Office of this Paper.

STOCKPORT.—Good middle-class Business with steadily increasing returns; shop and living accommodation, £52 per annum; well fitted and good, clean, saleable stock; taking £950 approx. per annum; for quick transaction owner will sell at sacrificial price of £350. 93/44, Office of this Paper.

SURREY.—Small good-class Cash Business in main thoroughfare; established 10 years; neglected under management; turnover could be doubled in short time; lock-up shop, modern flat above could be rented if required, reasonable rent; stock £150; N.H.I., Kodak Agency, good Photographic trade; good reasons for selling. 91/4, Office of this Paper.

CASH Business near Putney for sale owing to reorganisation; turnover about £25 weekly, with Panel Dispensing in addition, producing about £300 yearly; total returns have exceeded £2,000 within the last three years; net rent for lock-up shop under 10s. per week; good stock; National cash register; shopping thoroughfare; small premium, with stock and fittings by valuation. Apply 271/795, Office of this Paper.

CHEMIST'S Business for Sale; Harrogate; Wine Licence; lock-up shop; rent £50; price, £950, includes stock, goodwill, fixtures and fittings, etc.; turnover £1,800, and increasing. 87/4, Office of this Paper.

DRUG Stores, Shop and Four Rooms; decorated throughout; splendid opportunity Qualified Chemist; nearest opposition half a mile away; big scope N.H.I. and Optics; recent earnings £5 weekly clear under management; rent £104, exclusive; lease; nicely fitted, good clean stock, about £100; sacrifice £200; part can remain. Call or write 93 Harrow Road, Paddington Green (near Edgware Road).

DRUG Stores.—Thickly-populated district of Kidderminster; up to 6 months ago run as National Health Dispensary; excellent opportunities for energetic Qualified Chemist; 5 years' lease offered at 12s. 6d. per week, rising to 15s., inclusive of rates; audited accounts; price £225, as a going concern. Apply Cattell & Young, 31 Worcester Street, Kidderminster (Tel.: 307).

INTERNATIONAL MEDICAL AGENCY & ESTATES, LTD.

MEDICAL TRANSFER BUSINESS of every description undertaken.
 PARTNERSHIPS ARRANGED. INSURANCES AND CAPITAL ADVANCED.

Further particulars forwarded on application to—
WALTER HOUSE, 418-422 STRAND, W.C.2
 Phone: Temple Bar 3769

WELL-ESTABLISHED Chemist's Business for Disposal; large Dispensing, Photographic Trade; working-class district near Manor Park; turnover £2,750, gross profits £925; large double-fronted shop; price £500, stock and fixtures at valuation. Near Wanstead: Good-class Pharmacy for disposal; turnover £38 per week, increasing; in main-road position. Phone: Seven Kings 3339. 2 Farm Terrace, High Road, Chadwell Heath, Essex.

£500 OR NEAR OFFER FOR QUICK SALE.—Well-established Business in pleasant, seaside resort (Sussex); returns last two years averaged £18 weekly; N.H.I. 300 monthly; Kodak, Solo and Ucal Agencies; owner's net profit £300; easily worked; overheads low; rent shop and ground-floor flat £78 clear, or sub-letting flat (separate entrance) £36; lease granted; opening for Optics and Dentistry; well stocked; genuine reason for disposal. 92/1, Office of this Paper.

BUSINESSES WANTED.

CHEMIST'S Business wanted; North-West England preferred, but not essential; capable of net profit upwards of £8 per week. Full particulars, in confidence, to M.P.S., M.I.C.O., 93/49, Office of this Paper.

PHARMACIST wishes to Purchase Business, extended payment terms; London only; no rubbish; cash available £250. Apply 90/1, Office of this Paper.

PREMISES.

★ **EMINENTLY SUITABLE FOR CHEMIST & DRUGGIST STORES**

Apply for full Particulars to:
MORRELL (BUILDERS) LTD.,
 "Terminal House,"
 52 Grosvenor Gardens, S.W.1

PREMISES TO LET.

6s. for 50 words or less ; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

SOUTH KENSINGTON (off Fulham Road).—Splendid shop and basement, redecorated and electric light, 42s. weekly inclusive, Alicombe, 35 Queen Victoria Street, E.C. City 3468.

HIGH-CLASS Shops to Let in new parade in best part of High Road, Streatham, from £140-£500 per annum. Apply Letting Manager, 17 Streatham High Road, 'phone Streatham 9627, or Bell Investment Trust, Ltd., 115 Park Street, Mayfair, W.1. 'Phone: Mayfair 4201.

TO LET.—Double-fronted Shop with living accommodation; 88 Alpha Street, Slough; good opening for Chemist and Druggist; rent 30s. per week. Apply A. T. Ricketts, 48 Upton Road, Slough.

TOTTENHAM COURT ROAD (off), near Tube.—Spacious shop and basement, only 40s. weekly inclusive. Alicombe, 35 Queen Victoria Street, E.C. City 3468.

£100 P.A.—Fine Shop under palatial block of 64 flats adjoining station, Putney district; fine opening for Qualified Chemist. Apply Stephens, Grand Buildings, Trafalgar Square, Whitehall 9224.

APARTMENTS.

THE HAMPDEN RESIDENTIAL CLUB

FOR GENTLEMEN, Hampden Street, N.W.1. Close to King's Cross and Euston. 300 Bedrooms. 12s. 6d. to 25s. per week, including bath, attendance and boot cleaning. All meals à la carte in dining room. Moderate tariff. Large Club Rooms, Library, Billiards Room, Reading Room and Study for Students. Illustrated Prospectus from Secretary. Euston 2244/5.

AGENCIES.

AGENCIES WANTED.

THE MALTA WHOLESALE DRUG COMPANY, OF VALLETTA, MALTA, DESIRE TO REPRESENT BRITISH FIRMS; EXCELLENT LONDON TRADE AND BANK REFERENCES.

BRITISH House, established 60 years, manufacturing Plasters, Tablets and Pharmaceuticals, Toilet Preparations, First-Aid Requisites, Sanitary Specialities, and a wide range of incidental products, would like to hear from prospective agents in the following: Scandinavia, Cyprus, West Indies, China, South America (all States). Full particulars, stating how long established and references, to 271/792, Office of this Paper.

THROUGH the agency of THE CHEMIST AND DRUGGIST DIARY AND YEAR-BOOK and *The Chemist and Druggist* each week (total annual cost twenty shillings) you can keep in touch with all the latest movements in the Chemical, Drug and Allied Trades. THE DIARY for 1936 is in the press and NOW is your opportunity (if not already a subscriber) to secure a copy. Remittance may follow later, but send your order to-day.

PATENTS.

THE Proprietor of British Patent No. 258,704, dated July 18, 1925, relating to "Improvement in a Process for Making Pills having an Oily Material as one of the Ingredients," is desirous of entering into arrangements by way of a licence or otherwise on reasonable terms for the purpose of exploiting the above patent and ensuring its practical working in Great Britain. Inquiries to B. Singer, Steger Building, Chicago, Illinois.

NOTICE.

PHARMACEUTICAL COUNCIL ELECTION, MAY, 1936.

A VIRILE and established organisation, having the welfare of Chemists at heart, offers to support a Candidate for the above Election. He must be a Retail Chemist conversant with current Pharmaceutical Politics and thoroughly keen to co-operate. Write in confidence to Organising Secretary, 55 Rectory Road, N.16.

APPRENTICES.

VACANCY for Male Apprentice at the beginning of New Year in business where he would get all-round experience; progressive remuneration; time off for study if desired. Dudley Pring, 60 West-horne Avenue, Eltham, S.E.9.

SITUATIONS OPEN.

RETAIL (HOME).

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

MISS JOHNSTON wishes to thank the numerous gentlemen who applied for the post recently advertised in THE CHEMIST AND DRUGGIST, and to state that the vacancy is now filled.

BIRMINGHAM.—Qualified Assistant; no Sunday or Bank Holiday duty. Apply, stating salary required and previous experience, and when disengaged, to Izon, High Street, Aston, Birmingham, 6.

LONDON, E. (near City).—Assistant, lady or gentleman, wanted at once for two or three weeks, possibly longer; Dispensing (N.H.I.), Counter, etc.; state terms, full time, part time or evenings only, enclosing references. Write Machel, 7 Somers Road, Walthamstow.

MANCHESTER.—Qualified Manager required for the beginning of January; branch business in working-class district, with quick Counter and N.H.I. State age, salary required, experience and when at liberty to 93/20, Office of this Paper.

TORQUAY.—Wanted, early in the New Year, a Qualified Male Assistant desiring a permanency and the prospect of a Managership. Apply with full particulars and salary required to E. Quant, Landour, Lower Woodfield Road, Torquay. Applications not answered in five days respectfully declined.

EARLY IN JANUARY.—Young Unqualified Assistant (19-22), male, good address and appearance, for high-class Counter trade; permanency; state wages and enclose photo and copies of references. Gordon Morum, Chemist, Arcade, Guernsey, C.I.

JUNIOR or Improver required for December 30; a man having served apprenticeship in good-class Dispensing business preferred; state experience and salary required (no stamped envelopes). H. Reynolds, 9 Becket Buildings, Worthing.

JUNIOR, sound experience in Dispensing, wanted at once. State age, height, experience and salary required to J. A. Cordey, Chemist, 28 Amphil Road, Bedford.

LADY Assistant.—Unqualified Junior required in January; quick and accurate Dispenser. Full particulars of age, height and salary, by letter only, to C. J. Reid, 30 High Street, Eton, Windsor.

LADY Pharmacist (aged about 40), experienced, wanted to assist, Dispense, and help generally, for business on S.E. Coast, but principally to act as Superintendent to another lady; one semi-retired preferred; permanency. Apply in first instance, giving full particulars, references and salary required, to 93/48, Office of this Paper.

QUALIFIED Assistant; permanency; working-class area; please state experience; reference and salary expected; photo if possible (returned); application not answered in 7 days respectfully declined. Fish, Ltd., 48 Blackfriars Road, Gt. Yarmouth.

QUALIFIED Assistant required immediately; enclose photo in first letter; also state age, height, salary and experience. Leonard Stearn, Chemist, Mill Road, Cambridge.

QUALIFIED Assistant, young, wanted middle of January. Usual particulars to 271/793, Office of this Paper.

QUALIFIED Male required (not over 35) to open new branch. Apply by letter, giving full particulars of age, experience, qualifications and salary required, to Secretary, Dewsbury Pioneers' Industrial Society, Ltd., Dewsbury, not later than first post December 18.

REQUIRED early in New Year, Young Lady for Counter; one with knowledge of Dispensing and Toilet preferred; state experience, salary expected and photo if possible, which will be returned. A. & N. Catto, Ltd., 49 Cranbrook Road, Ilford.

REQUIRED.—Female Assistant (about 18 to 20); knowledge of Toilet Goods and Patent Medicines, etc.; for south-western district. Apply in writing, stating age and experience, to the Staff Manager, Royal Arsenal Co-operative Society, Limited, 148 Powis Street, Woolwich, S.E.18. Endorse envelope "Pharmacy." NOTE.—Canvassing of members of the General Committee or officials will disqualify.

UNQUALIFIED Assistant required (age 21-30); give full particulars and state salary required. Abbott, High Street, Buxton, Derbyshire.

PHOTOGRAPHS, TESTIMONIALS, &c.

When answering advertisements in this section applicants are strongly advised not to send (unless specially requested) ORIGINAL TESTIMONIALS or VALUABLE PHOTOGRAPHS. As can be readily understood, when an advertiser receives from 100 to 150 replies the task of returning photographs, testimonials, &c., is one of some difficulty.

UNQUALIFIED Assistant (25-35), male, required for Dispensing and Counter; must be well experienced, honest and conscientious; used to brisk N.H.I.; the situation is a permanency if suitable. Telephone Royal 3392 for interview.

UNQUALIFIED Lady Assistant required immediately; state salary, required and full particulars of experience, etc. Forrester, Chemist, Hadleigh, Suffolk.

WANTED—A Qualified Chemist; honest, trustworthy; accurate Dispenser, capable at Counter and good Window-dresser. Call or write, giving full particulars as to age, salary, experience, when able to commence, "K.," 77 High Street, Camden Town, London, N.W.1.

YOU can safely leave your business for short periods during 1936 if you know the *C. & D.* and *THE CHEMIST AND DRUGGIST DIARY AND YEAR-BOOK* are handy for reference. Order your copy now and, if you are not already a subscriber, twenty shillings will secure a copy of the 1936 edition and the *C. & D.* every week for 12 months. Remittance may follow later.

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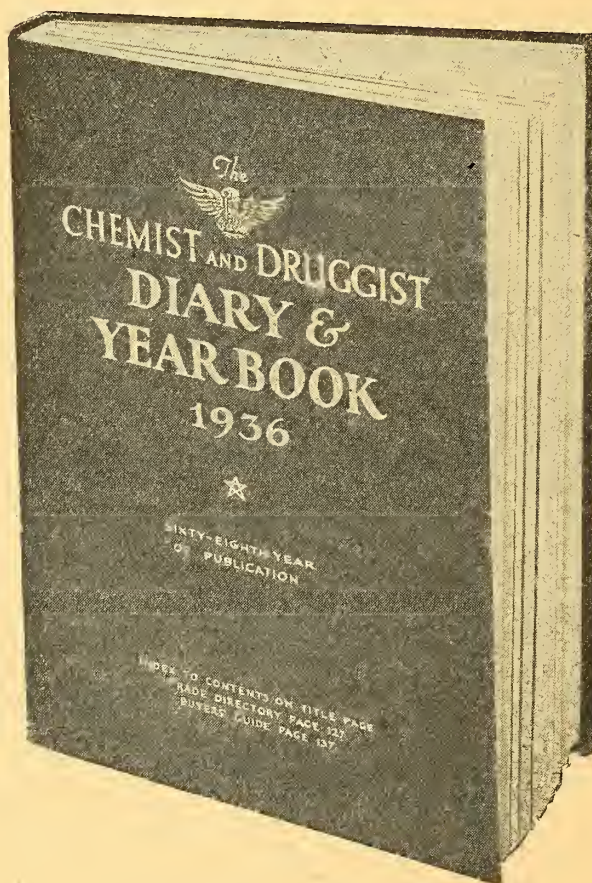
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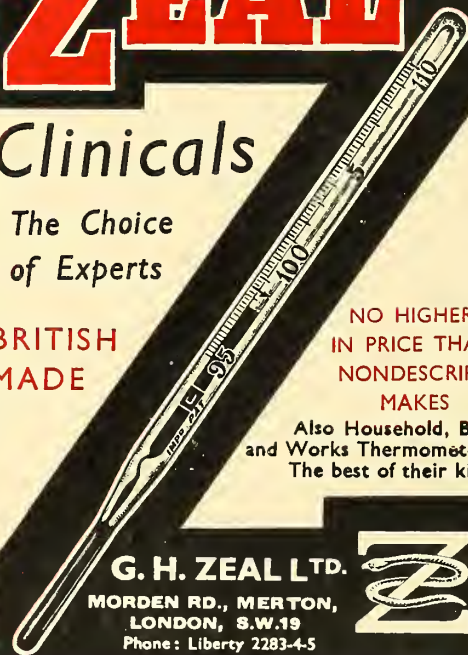
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